CR 125 - CR 125 USA 2013
WR 125 - WR 125 USA 2013

Manuale utente_Owner's manual_Manuel d'utilisateur_Benutzerhandbuch_Manual del usuario

Husqvarna®

Husqvarna®

CR 125 - CR 125 USA 2013
WR 125 - WR 125 USA 2013

Ed. 05-2012 - Rev. 00
Unless specified, data and prescription are referred to all the models.

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Note

- References to the "left" or "right" of the motorcycle are in the sense of a person facing forwards.

- Z: number of teeth
- A: Austria
  AUS: Australia
  B: Belgium
  BR: Brazil
  CDN: Canada
  CH: Switzerland
  D: Germany
  E: Spain
  F: France
  FIN: Finland
  GB: Great Britain
  I: Italy
  J: Japan
  USA: United States of America

- Where not specified, all the data and the instructions are referred to any and all Countries.

PRESENTATION

Welcome to the Husqvarna motorcycling Family!
Your new Husqvarna motorcycle is designed and manufactured to be the finest in its field.
The instructions in this book have been prepared to provide a simple and understandable guide for your motorcycle's operation and care.
Follow the instructions carefully to obtain maximum performance and your personal motorcycling pleasure. Your owner's manual contains instructions for owner care and maintenance.
The main work of repair or maintenance requires the attention of a skilled mechanic and the use of special tools and equipment.
Your Husqvarna dealer has the facilities, experience and original parts necessary to properly render this valuable service.
This "Owner's Manual" is part and parcel of the motorcycle, hence, this had to remain with the motorcycle even when sold to another user.
This motorcycle uses components designed thanks to systems and state of the art technologies which are thereafter tested in competition.
In competition motorcycles, every detail is verified after each race in order to always guarantee better performance. For correct functioning of the vehicle, it is necessary to follow the maintenance and control table found on Appendix A.

IMPORTANT NOTICES

1) The **CR** models are guaranteed COMPETITION motorcycles exempt from functional defects, the suggested maintenance table for competition use is shown on Appendix A.

2) WR vehicles are STREET LEGAL motorcycles (with LIMITED POWER ENGINE); they are guaranteed exempt from functional defects and covered with legal guarantee, if the STANDARD CONFIGURATION is maintained and the suggested maintenance table, shown on Appendix A is observed.
If **WR** vehicles are transformed in COMPETITION MOTORCYCLES (with FULL POWER ENGINE), the suggested maintenance table for competition use is shown on Appendix A.

MOTOCROSS

ENDURO

EN

IMPORTANT

The reference for recognition of the guarantee will be the MOTORCYCLE CONFIGURATION, as shown below:

A) STANDARD MOTORCYCLE, STREET LEGAL: with LIMITED POWER ENGINE
B) COMPETITION MOTORCYCLE, RACING USE: with FULL POWER ENGINE

This motorcycles was not designed for long trips with the engine always at maximum rpm as can occur whilst travelling on roads or highways. Long trips at full throttle can cause severe damage to the engine.
This motorcycles is setup for competition use and therefore guarantees maximum performance with the rider alone. It is thereby not recommended to use the vehicle on circuits or off-road with a passenger.

ALWAYS keep in mind that these motorcycles have been designed strictly for competition use, that is, for conditions of usage very different from those presented on the road.

ALWAYS keep in mind that these motorcycles have been designed strictly for competition use, that is, for conditions of usage very different from those presented on the road.
In order to maintain the vehicle's "Guarantee of Functionality", the client must follow the maintenance program indicated in the user's manual by carrying out maintenance checks at authorized HUSQVARNA dealers. The cost for substituting parts and for the labour necessary in order to respect the maintenance plan, is charged to the client.
NOTE: the guarantee is EXTINGUISHED in the case where the motorcycle is rented.

Important Notice

Read this manual carefully and pay special attention to statements preceeded by the following words:

Warning*: Indicates a possibility of severe personal injury or loss of life if instructions are not followed.
Caution*: Indicates a possibility of personal injury or equipment damage if instructions are not followed.
Note*: Gives helpful information.

Parts Replacement

When parts replacement is required, use only Husqvarna ORIGINAL parts.

Warning*: After an upset, inspect the motorcycle carefully. Make sure that the throttle, brake, clutch and all other systems are undamaged. Riding with a damaged motorcycle can lead to a serious crash.

Warning*: Never attempt to start or operate your motorcycle unless you are wearing appropriate protective clothing. Always wear a motorcycle helmet, motorcycle boots, gloves, goggles and other appropriate protective clothing.

Warning*: This motorcycle is a state of the art competition bike. Do not attempt to start or ride this motorcycle until you have received expert instruction and are in excellent physical condition.

PRECAUTIONS FOR CHILDREN
WARNING

- **Park the vehicle where it is unlikely to be bumped into or damaged. Even slight or involuntary bumps can cause the vehicle to topple over, with subsequent risk of serious harm to people or children.**
- **To prevent the vehicle from tipping over, never park it on soft or uneven ground, nor on asphalt strongly heated by the sun.**
- **Engine and exhaust pipes become very hot during riding. Always park your motorcycle where people or children can not easily reach these parts, in order to avoid serious burns.**

IDENTIFICATION DATA

The engine number is printed on the upper side of the engine case, whereas the frame number is printed on the steering tube. Always state **the number stamped on the frame** (and write it on this booklet), when placing orders for spare parts, or when asking for informations about your motorcicle.

FRAME NUMBER

VEHICLE IDENTIFICATION NUMBER (V.I.N.)

The full 17-digit serial, or Vehicle Identification Number, is stamped on the steering tube (R.H. side).

(●) = Model designation
(▲) = Model Year (2013)
(♦) = Progressive no.

CR 125

ZKH 4H00AA DV 050001
(●) (▲) (♦)

CR 125 USA

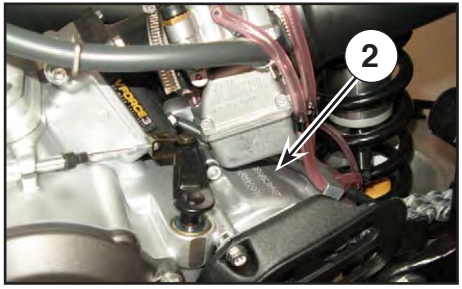
ZKH CR123# DV 000000
(●) (▲) (♦)

WR 125 USA

ZKH WR123# DV 000000
(●) (▲) (♦)

WR 125

ZKH 4H00AA DV 000001
(●) (▲) (♦)

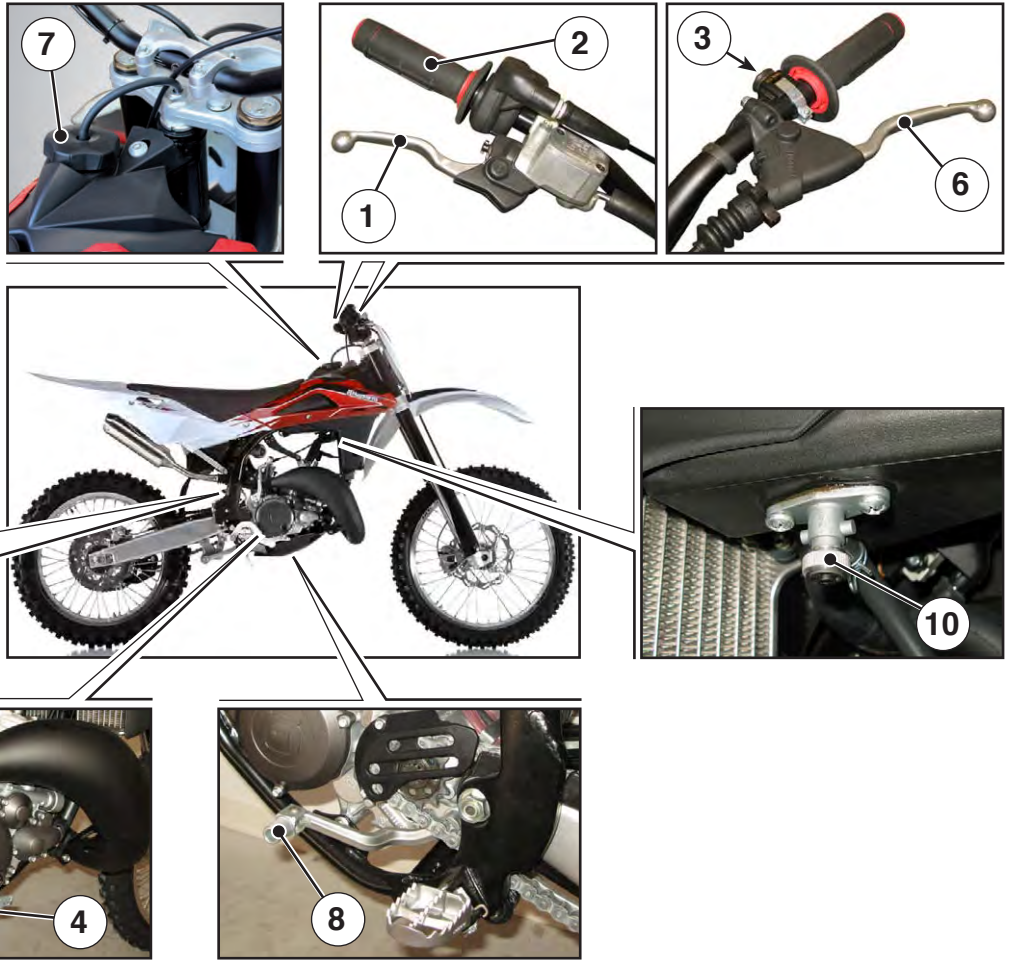


1. Frame serial number
2. Engine serial number

EN

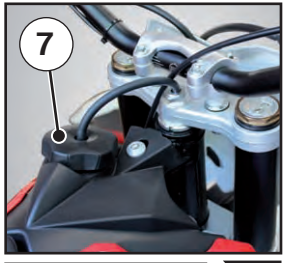
CR - WR USA CONTROL LOCATION

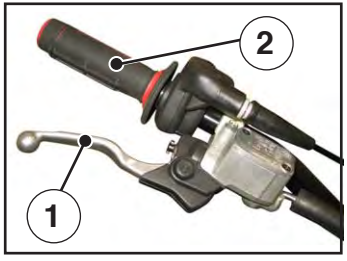
1. Front brake lever
2. Throttle grip
3. Engine stop button
4. Rear brake control pedal
5. Starting pedal
6. Clutch control lever
7. Fuel tank filler cap
8. Gearbox control pedal
9. Choke (L.H. side)
10. Fuel cock

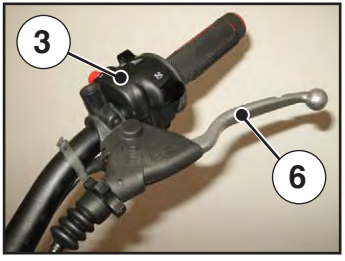


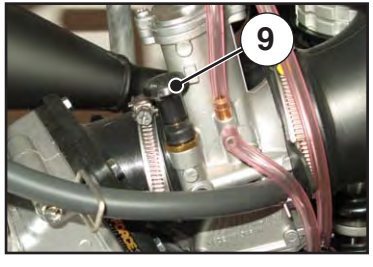
WR CONTROL LOCATION

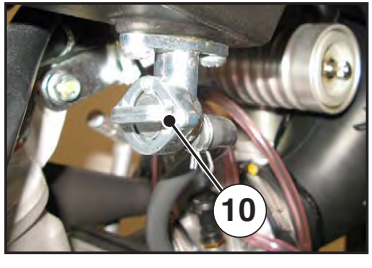
1. Front brake lever
2. Throttle grip
3. L.H. commutator
4. Rear brake control pedal
5. Starting pedal
6. Clutch control lever
7. Fuel tank filler cap
8. Gearbox control pedal
9. Choke (L.H. side)
10. Fuel cock

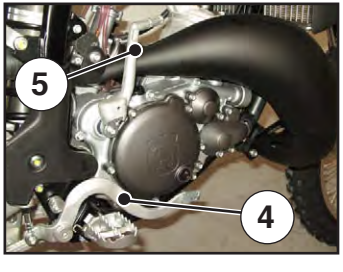












TECHNICAL DATA

ENGINE

Type.....single cylinder, 2 stroke
Cooling.....liquid
Bore.....2.13 in. (54 mm)
Stroke.....2.15 in. (54,5 mm)
Displacement.....7.62 in^3. (124,82 cm^3)
Compression ratio
(with closed ports).....8,8:1
Starting .....kick start

TIMING SYSTEM

Type.....lamellar valve on suction in the crankcase and H.T.S. valve with mechanical control on the exhaust

LUBRICATION

Engine ..... 4% (1:25) of oil-gasoline mix during running in; NOT LESS than 3% (1:33)when running in is over
Primary drive transmission/Gearbox . .by the oil contained in the crankcase

IGNITION

Type..... electronic digital capacitor-discharge type, with variable advance
Spark plug type ..... CHAMPION QN B4/NGK BR9EG
Gap .....0.0236 in. (0,6 mm)

FUEL SYSTEM

Type..... Carburettor "Mikuni" TMX 38
Venturi diameter .....1.5 in. (38 mm)
High speed jet (CR).....460
High speed jet (WR).....380
Low speed jet (CR) 35
Low speed jet (WR) 15
Starting jet (CR).....80
Starting jet (WR).....50
Main nozzle R-8 (914)
Floater (n° 2).....g 6,1
Throttle piston (CR).....4,0
Throttle piston (WR).....5,0
Metering pin 6BFY43
Metering pin slot (CR) 3rd
Metering pin slot (WR) 2nd
Idle mixture adjusting screw (CR).....rounds 1+1/4
Idle mixture adjusting screw(WR).....rounds 1+1/2

PRIMARY DRIVE

Drive pinion gear- Clutch ring gear .....Z 22- Z 71
Transmission ratio 3,227

CLUTCH

Type.....oil bath multiple disc clutch, mechanical control

TRANSMISSION

Type..... constant mesh gear type
Transmission ratio
1st gear .....2,357 (z 33/14)
2nd gear.....1,866 (z 28/15)
3rd gear .....1,579 (Z 30/19)
4th gear .....1,350 (Z 24/22)
5th gear .....1,181 (Z 26/22)
6th gear .....1,000 (Z 21/21)

SECONDARY DRIVE

Transmission sprocket- Rear wheel sprocket .....Z 13- Z 50
Transmission ratio.....3,846

FINAL RATIOS

1st gear 29,258
2nd gear.....23,170
3rd gear 19,599
4th gear.....16,757
5th gear 14,669
6th gear 12,412

FRAME

Type..... Steel single tube cradle (roud tubes); light alloy rear frame.

FRONT SUSPENSION

Type....."Upside-down" telescopic hydraulic front fork with advanced axle (adjustable in compression and rebound stroke); stanchions tubes Ø 1.89 in. (Ø 48 mm)
Legs axis stroke.....11.8 in. (300 mm)

REAR SUSPENSION

Type.....progressive with hydraulic single shock absorber
Wheel stroke.....11.6 in. (296 mm)

FRONT BRAKE

Typefixed disc Ø 10.24 in. (Ø 260) "Wave" type with hydraulic control and floating caliper

REAR BRAKE

Type..... floating disc, Ø 9.45 in. (Ø240) "Wave" type with hydraulic control and floating caliper

RIMS

Front.....in light alloy: 1,6x21"
Rear (CR).....in light alloy: 2,15x19"
Rear (WR).....in light alloy: 2,15x18"

TYRES

Front (CR).....80/100x21"
Front (WR).....90/90x21"
Rear (CR)..... 100/90x19"
Rear (WR)..... 120/90x18"

Cold tire pressure

(front) (*).....12.8÷14.2 psi (0,9÷1,0 Kg/cm^2)
(front) (%).....15.6 psi (1,1 Kg/cm^2)
(rear) (*).....11.4÷12.8 psi (0,8÷0,9 Kg/cm^2)
(rear) (%).....14.2 psi (1,0 Kg/cm^2)
(*) Racing use - (%) Road use

DIMENSION, WEIGHT, CAPACITY

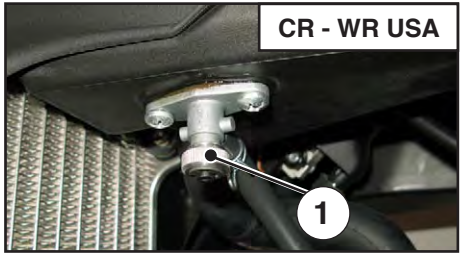
Wheelbase (CR) .....57.48 in. (1460 mm)
Wheelbase (WR) .....57.68 in. (1465 mm)
Overall length(CR) .....87.2 in. (2215 mm)
Overall length (WR) .....88.98 in. (2260 mm)
Overall width (CR).....32.28 in. (820 mm)
Overall width (WR).....33.07 in. (840 mm)
Overall height (CR) .....51.38 in. (1305 mm)
Overall height (WR) .....51.18 in. (1300 mm)
Saddle height (CR).....38.78 in. (985 mm)
Saddle height (WR).....38.38 in. (975 mm)
Minimum ground clearance (CR).....12.79 in. (325 mm)
Minimum ground clearance (WR).....12.4 in. (315 mm)
Kerb weight, without fuel (CR) .....202.8 lb (92 kg)
Kerb weight, without fuel (WR) .....211.6 lb (96 kg)
Fuel tank capacity,
(1.32 Imp. quarts, 1.59 U.S. quart, 1,5 l reserve included)
1.54 Imp. gall.,
1.85 U.S. gall.
7 l
Coolant capacity.....0.97÷1.14 Imp. Quarts ,
1.16÷1.37 U.S. Quarts
1,1÷1,3 l
Transmission oil.....0.70 Imp. Quarts ,
0.85 U.S. Quarts
0,8 l

TABLE FOR LUBRICATION, SUPPLIES

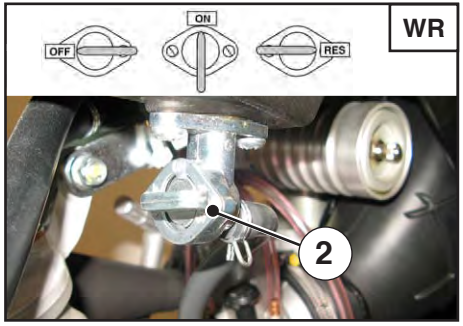
Engine lubricating oil CASTROL A747
Gearbox and primary drive lubricating oil CASTROL POWER 1 RACING 10W-40
Engine coolant CASTROL MOTORCYCLE COOLANT
Brake system fluid CASTROL RESPONSE SUPER DOT 4
Grease lubrication CASTROL PASTE TA GREASE
Final drive chain lubrication CASTROL CHAIN LUBE RACING
Front fork oil Kayaba KHL15-11
Oil for rear shock absorber CASTROL SYNTHETIC FORK OIL 5W
Electric contact protection CASTROL METAL PARTS CLEANER CASTROL MOTORCYCLE DWF
Fillers for radiator AREXONS TURAFALLE LIQUIDO

CONTROLS

CR - WR USA Fuel cock
The cock is screw-type and is on the left of the tank; loosen by turning ring nut (1) to open, tighten to close.



WR Fuel cock
The cock (2) set on left side of tank has three positions:
OFF - closed; no fuel outlet;
ON - open; fuel outflows from the main flow;
RES - reserve; fuel outflows from the reserve flow.
When running, should feed problem ensue, set cock lever on RES position. After filling up, take the cock in ON position again.

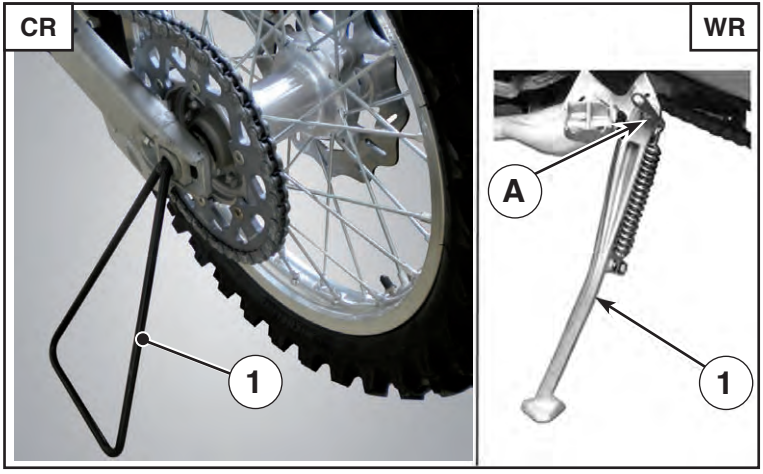


SIDESTAND

A sidestand (1) is supplied with every motorcycle.

WARNING*: The stand is designed to support the weight of the MOTORCYCLE ONLY. Do not sit on the motorcycle using the stand for support as this could cause structural failure to the stand and could cause serious bodily injury.

WR: Periodically check the side stand (see "Periodical maintenance card"); check that the springs are not damaged and that the side stand freely moves. If the side stand is noisy, lubricate the fastening pivot (A).



FUEL

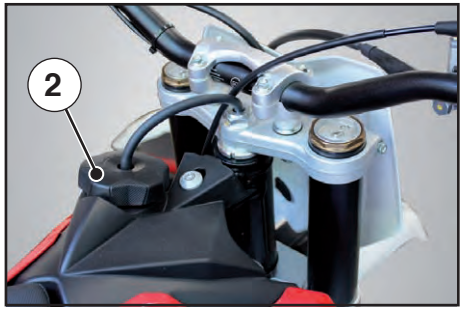
The motorcycle is equipped with 2 stroke engine that requires a gasoline-oil mixture. Recommended fuel: premium grade unleaded fuel (R.O.N. 98).

Note*: Do not continue operation if the engine pings or knocks. The engine will be damaged and could seize.

WARNING*: If "knocking" or "pinging" occurs, try a different brand of gasoline or higher octane grade.

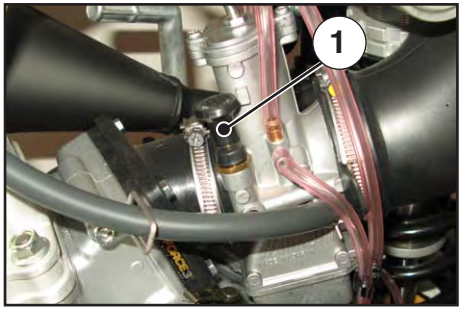
WARNING*: Gasoline is extremely flammable and can be explosive under certain conditions. Always stop the engine and do not smoke or allow flames or sparks in the area where the motorcycle is refueled or gasoline is stored.

WARNING*: Do not overfill the tank. After refueling, make sure the tank cap (2) is closed securely.



CARBURETOR CHOKE

The starter knob (1), located on the left side of the carburetor, is used to enrich the mixture during the engine start.
Pull out the knob to open the starter, and pull the lever upwards to close it.



DIGITAL INSTRUMENT, WARNING LIGHTS (WR)

The motorcycle is equipped with a digital instrument; on the instrument are located 2 warning lights too: high beam and blinkers.

1- BLUE warning light "HIGH BEAM"
2- GREEN warning light "BLINKERS"
The instrument display illuminates (amber colour) when the engine started.

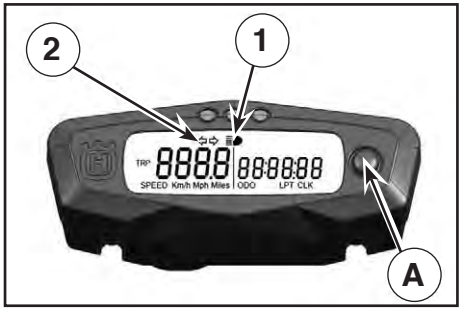
NOTES
- Every time the engine starts, for the first 2 seconds, the instrument shows the version of the checking SW; after the check, the instrument shows the last planned function.
- When the motorcycle engine is OFF, the instrument doesn't also show its functions.
- To select the instrument functions and to set to zero the functions, use the SCROLL knob (A).
- The instrument functions are the following, as shown below.

1- SPEED / ODO
2- SPEED / CLOCK
3- SPEED / TRIP
4- SPEED / CHRONO
1- SPEED / ODO
.....

1- SPEED (Km/h or mph) / ODO

- SPEED: motorcycle speed- maximum value: 299 Km/h or 299 mph;
- ODO: odometer- maximum value: 99999 km;

To replace kilometers with miles or miles with kilometers proceed as follows:
1) set to figure 1, stop the engine and push the knob SCROLL (A);
2) Start the engine holding pushed the button SCROLL (A) until the symbol "Km/h" will be displayed;
3) then the symbols "Km/h" and "Mph Miles" will be displayed alternatively. Push again the SCROLL (A) button when the unit you wish to use is displayed.



2- SPEED / CLOCK

- SPEED: motorcycle speedmaximum value: 299 Km/h o 299 mph;
- CLOCK: clock- Reading from 0:00 to 23:59:59;

To reset the clock, push the knob SCROLL (A) for more than 3 seconds in order to increase the hours; release the knob and then, after 3 seconds, it is possible to increase the minutes;

3- SPEED / TRIP 1

- SPEED: motorcycle speedmaximum value: 299 Km/h o 299 mph
- TRIP 1: distance- maximum value: 999.9 km (the data will be lost with voltage lower than 6V).

To setup the TRIP, push the SCROLL (A) button holding down more than 3 seconds.

4- SPEED / CHRONO (STP)

- SPEED: motorcycle speedmaximum value: 299 Km/h o 299 mph;
- STP 1: miles/kilometers covered time;
- Reading from 0:00 to 99:59:59 (the data will be lost with voltage lower than 6V).

To activate the function STP 1, push the knob SCROLL (A) for more than 3 seconds.

- 1st step: function ON;
- 2nd step: stop to the counters;
- 3rd step: STP 1 zero-setting; TRIP 1 and AVS 1 data zero-setting;
- 4th step: function ON;
- 5th step: stop to the counters;

.....

and so following

THROTTLE CONTROL

The throttle knob (1), is located on the right hand side of the handlebar. The position of the throttle control can be adjusted by loosening the two fastenig screws (A).

CAUTION
Do not forget to tighten the screws (A) after the adjustment.

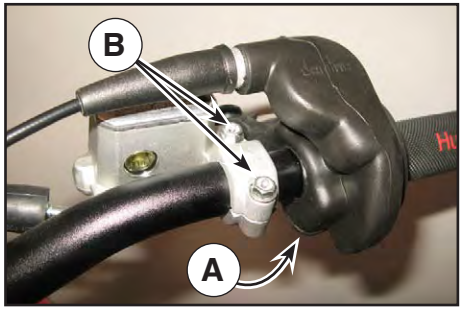
FRONT BRAKE CONTROL

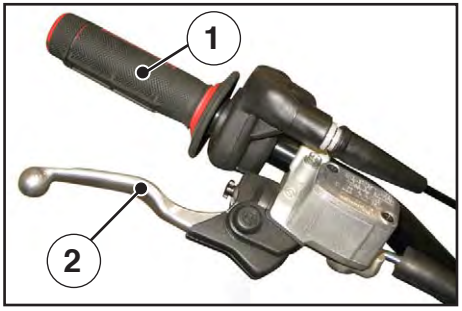
The brake control lever (2) is located on the right hand side of the handlebar. The position of the throttle control can be adjusted by loosening the two fastenig screws (B).

CAUTION
Do not forget to tighten the screws (B) after the adjustment.

STEERING LOCK (WR)

The motorcycle is equipped with a steering lock (1) on the R.H. side of the steering head tube.
To lock it, procede as follows: turn the handlebar leftwards, place the key in lock and turn counterclockwise. Push the key inwards (if necessary, turn to and from). Turn the key clockwise and remove it from the lock.
To unlock the steering lock, reverse the above procedure.





HANDLEBAR COMMUTATOR (WR)

The left commutator has the following controls:

1) Engine stop button ( )

2) **HI** = ( ) Selection control High beam

LO = ( ) Selection control of Low beam

3) **TURN**

= Activation of left turn indicators (self cancelling)

= Activation of right turn indicators (self cancelling)

To deactivate the indicator, press the control lever after its returning to center.

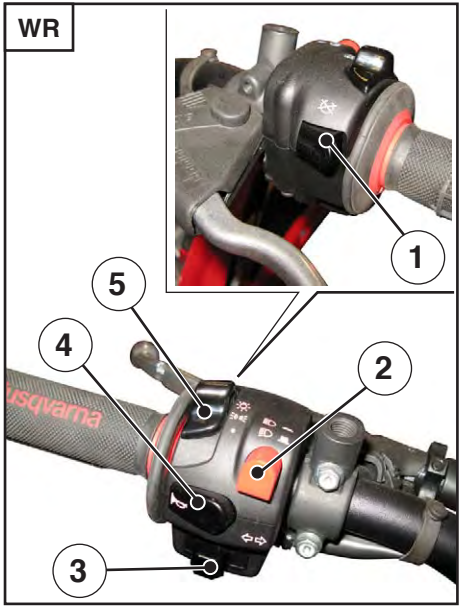
4) **HORN** = ( ) Warning horn

5) **LIGHTS**

= Lighting control of lowbeams and high beam.

= Lighting control of position lights.

= Off



ENGINE STOP BUTTON (CR - WR USA)

On the left side of the handlebar, near the clutch control, is located the engine stop button (1).

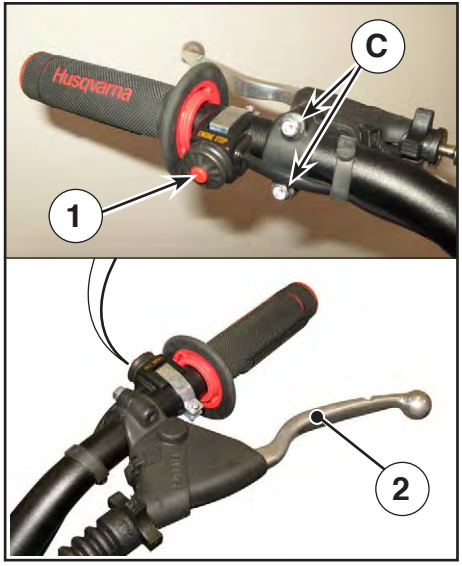
CLUTCH CONTROL

The clutch lever (2) is located on the left-hand side of the handlebar and is protected against dirt filtering in.

The position of the clutch control on handlebar can be adjusted by loosening the retaining screws (C).

CAUTION

Do not forget to tighten the screws (C) after the adjustment.



REAR BRAKE CONTROL

The rear brake control (1) is placed on the right-hand side of the motorcycle. On models WR a stop switch, during the braking action, causes the rear light to come on.

GEAR SHIFT CONTROL

The lever (1) is placed on the left-hand side of the engine. The operator must release the lever after each gear change to allow it to return to its central position before another gear change can be made.
Neutral position (N) is between first (low) and second gears. First gear is engaged by pushing the lever downwards; all the other gears are engaged, by pushing the lever upwards.
The position of the gear shift lever on the shaft can be varied by: loosening screw; pulling lever out; placing lever in new position on the shaft when the operation is over tighten the screw and then tightening the screw.

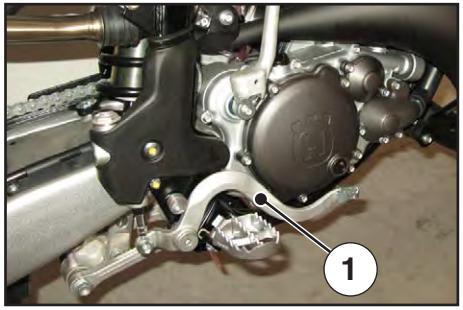
CAUTION*: Do not shift gears without disengaging the clutch and closing the throttle. The engine could be damaged by "overspeed" and shock.

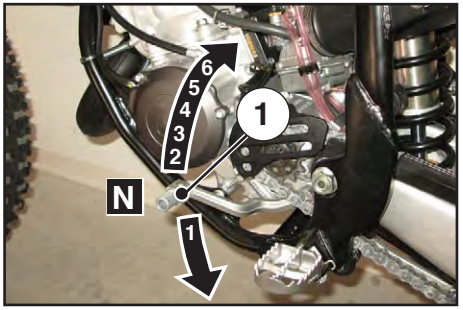
WARNING*: Do not downshift when traveling at a speed that would force the engine to overrev in the next lower gear, or cause the rear wheel to lose traction.

N: Neutral

KICKSTART PEDAL

The kickstart pedal (2) is situated on the right-hand side of the motorcycle.





RIDING

BEFORE EVERY RIDE MAKE FOLLOWING CHECKS
WARNING!
Before each ride, to prevent accidents or failures during ride, make sure to go through following list.

1. **Check all fluids**
   A. Transmission oil level
   B. fuel level
   C. coolant level

Make sure all caps are properly adjusted.

WARNING*: Don't remove radiator cap when hot!

2. **Check all controls**
   A. Throttle handgrip
   B. Clutch lever
   Make sure cables are not damaged and turn smoothly.
3. **Check brakes**
   Look for brake fluid leaks and worn hoses. Check for proper functioning.
4. **Check suspensions**
   Compress fork and rear suspensions. Look for oil leaks and ensure proper functioning.
5. **Check wheels**
   Check spokes and look for worn bearings.
   Check rims and tyres.
   Check tyre pressure.
6. **Check chain rollers and sprockets**
   Check wear on chain rollers and sprockets
   Ensure chain is correctly adjusted and lubricated.
7. **Check air filter and intake system**
   Check that air filter is clean
   Check all rubber connections and clamps.
8. **Check exhaust system**
   Check hook up, look for cracks
   Check muffler.
9. **Check torque**
   A. Spark plug.
   B. General check of torque
10. **Check steering action**
    Check bearing play.
11. **Check the electric system (WR).**
    Start the engine and check that the front and rear lamps, the stop light, the turn signals the cluster warning lights and the horn are working correctly.

WARNING*: Failure to perform these checks every day before you ride may result in serous damage or a severe accident.

RUNNING IN

To obtain the best settling of the engine moving elements, for driving your motorcycle to the best of your capability, run in the engine for several hours, following these procedures:
1. FROM STOP POSITION. Start the engine and run at idle, but open the throttle periodically and briefly until the engine is thoroughly warmed up. Within 3-4 minutes the coolant temperature will have reached approximately 60° C/140° F. (Do not ride the motorcycle).
2. Stop the engine, and let it cool down naturally until its temperature is equal to the ambient air temperature. This will allow the piston to align itself to any imperfections which might exist at the cylinder wall.
3. Repeat steps 1 and 2. (Do not ride the motorcycle).
4. Bring the engine up to normal running temperature. Ride the motorcycle approximately 10 minutes at moderate speeds. Then repeat cool down procedure.AVOID HARD ACCELERATIONS**.**
5. Bring engine up to normal temperature. Ride motorcycle approximately 15 minutes at moderate to high speeds. Again avoid hard accelerations.
6.Repeat cool down procedure.
7. Full throttle operation must be avoided until the engine has reached operating temperature, even after the break in process is completed. When the above procedure is followed correctly, engine durability and performance will be greatly enhanced.

CHECKS WHILE RUNNING IN

When running in, the following should be checked out:
- WHEELS SPOKES TENSION;
- TIGHTENING OF WHEELS;
- FORK PIN TIGHTENING;
- CHAIN ADJUSTMENT;
- STEERING BEARING PLAY;
- HANDLEBAR TIGHTENING;
- ENGINE GRIP TO FRAME;
- SUCTION FITTING GRIP;
- HEAD AND CYLINDER NUTS GRIP.

Note*:
After break in, install a new spark plug and change the transmission oil.
After running-in, check that vehicle nuts and bolts are properly tightened.

ENGINE START

For the correct start of a cold engine proceed as follows:
- shift the transmission into neutral;

CR - WR USA:
- open cock (1), by loosening ring nut (2);
WR:
- set fuel valve (3) in ON position;

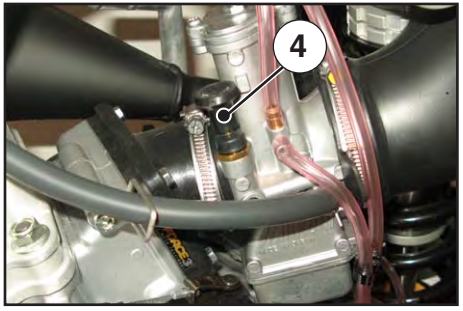
- lift the knob lever (4) on the carburetor.
Leaving the throttle in closed position operate kick-start (5).
Take the knob lever in its initial position as soon as the engine is idling.
When starting with an already warmed up engine DO NOT USE the starter. You can start the engine with the gear inserted, after disconnecting of the clutch.
If the carburetor is flooded, shut off the fuel supply and the starter and operate the crank lever or the kick-start until the engine starts. If necessary, remove the spark plug and dry it.

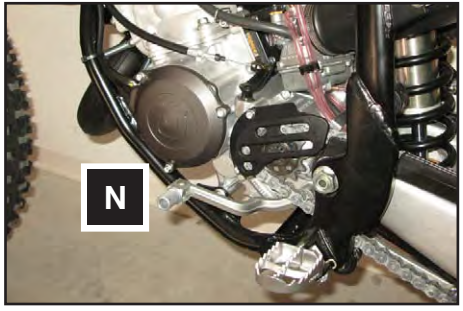
IMPORTANT NOTE IN CASE OF COLD STARTS AT LOW TEMPERATURES
It is recommended to briefly warm-up the engine at idle until, after having disengaged the starter, there is a normal response from the engine when opening the throttle.
This will enable the lubricant to reach the correct working temperature thereby guaranteeing a correct functioning of all engine parts.
Avoid overheating the engine.

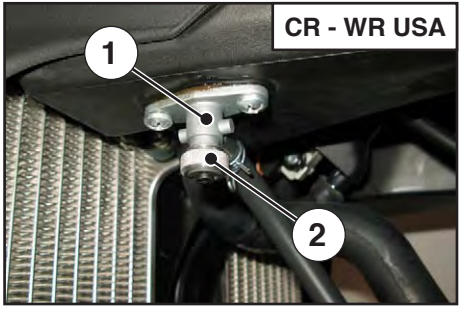
IMPORTANT
Never accelerate the engine after a cold start.

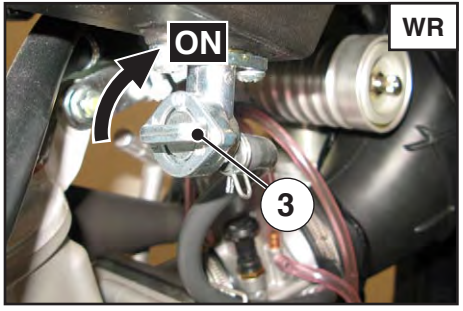
WARNING*: Exhaust contains poisonous carbon monoxide gas. Never run the engine in a closed garage or in a confined area.

WARNING*: This high performance motorcycle can some times «kick back» strongly when you are starting it.
Do not attempt to start this motorcycle unless you are wearing high top heavy sided riding boots. You could seriously hurt you leg if the kickstarter kicked back and your foot slipped.





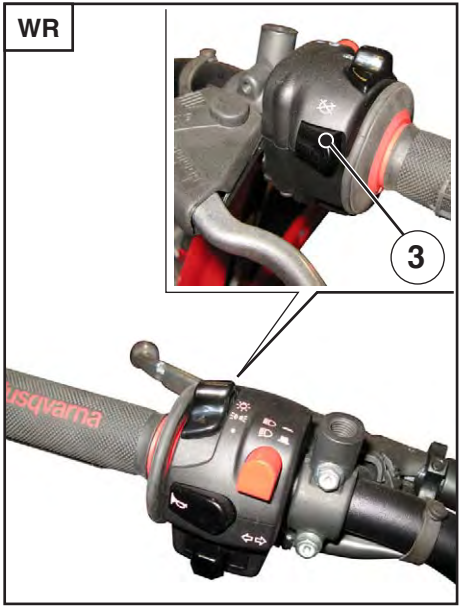


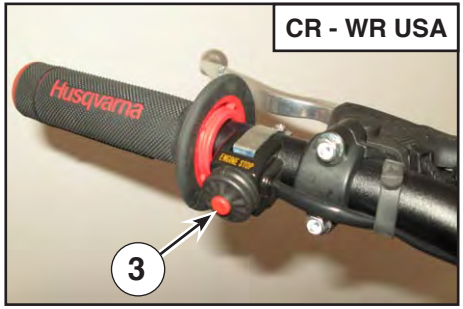


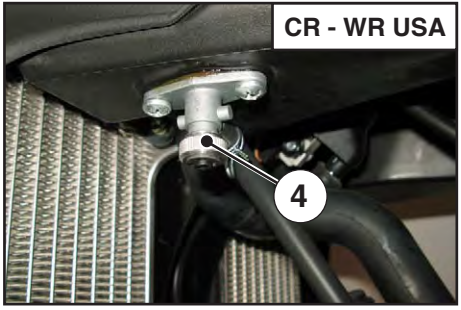
STOPPING THE MOTORCYCLE AND THE ENGINE

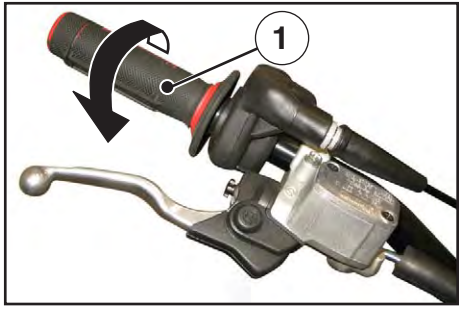
- Close the throttle (1) completely so that the engine will help slow down the motorcycle.
- For normal braking, gradually apply both front and rear brakes while down shifting (for maximum deceleration, apply the front and rear brakes firmly).
- When stopped, pull the clutch lever and shift gear lever (2) in neutral position.
- Press the engine stop button (3).
- Close the fuel cock (4).

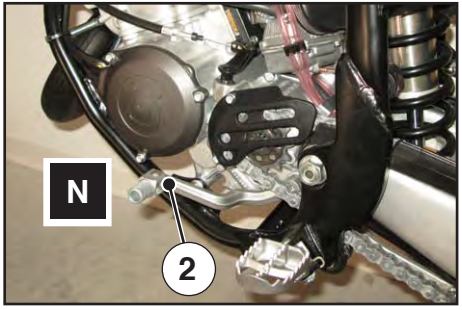
When the bike is off, place it on its side stand.

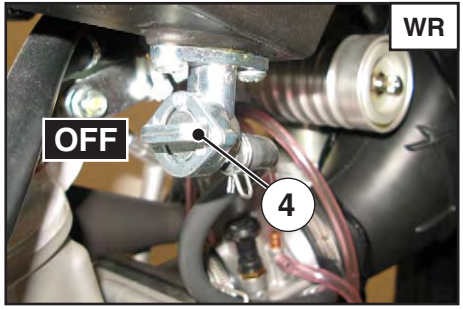










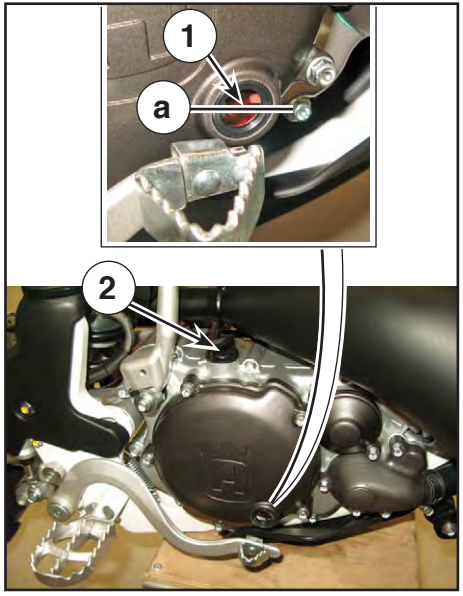


TRANSMISSION OIL LEVEL CHECKING

A. Transmission oil level

Keeping the motorbike level and in a vertical position, check the oil level through the inspection (1) window on the right crankcase. Check if level (a) is about midway of the inspection porthole.
To fill up, remove the filler cap (2).

Note*: Have this operation made with warmed-up engine.
WARNING*: Be careful not to touch hot engine oil

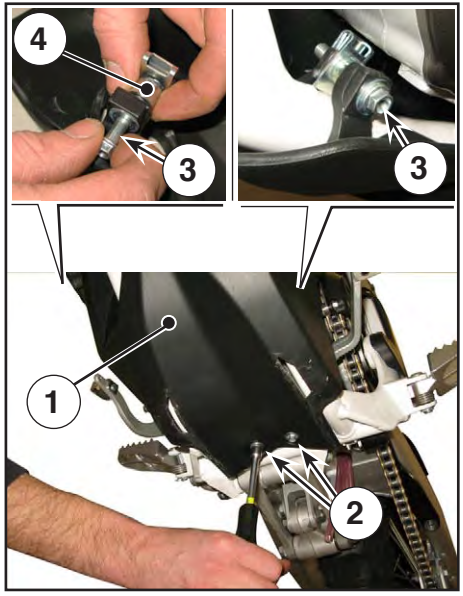


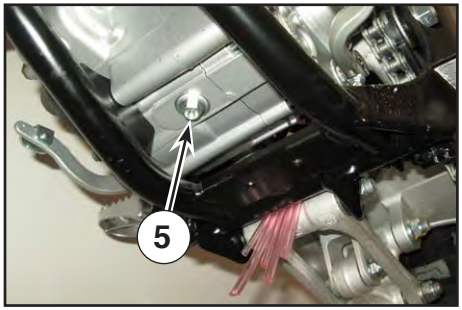
CHANGING TRANSMISSION/GEARBOX OIL

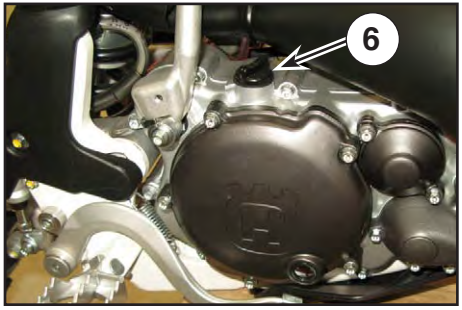
Remove the engine guard (1) by loosening the lower screws (2) and the side screws (3).

NOTE
On reassembly, make sure the spacer (4) is correctly positioned.

To change oil, unscrew the undersump cap (5), remove the cap (6) and let the oil drain completely; then screw the cap back on with its seal and pour fresh oil through the filler hole.
Use only the prescribed quantity and type of oil.





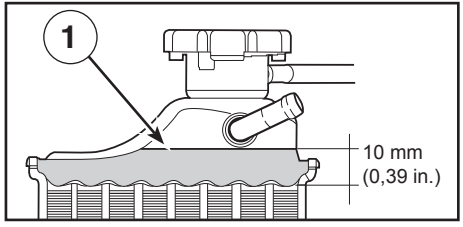


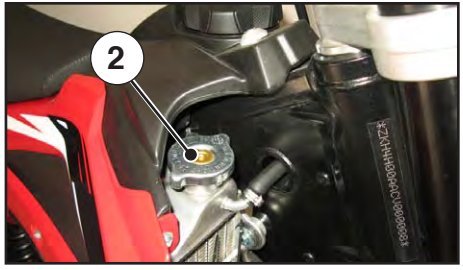
COOLANT LEVEL CHECK

Check level (1) in right-hand radiator when engine is cold (place the motorcycle so that it is perpendicular to the ground). The coolant should be approximately 0.39 in. above the cells.
The radiator cap features two locking positions: the first one is for prior discharge of pressure from the cooling system.

WARNING
Avoid removing radiator cap when engine is hot, as coolant may spout out and cause scalding.

NOTE
Difficulties may arise in eliminating coolant from varnished surfaces. If this occurs, wash off with water.





COOLANT REPLACEMENT

- Place the vehicle on a flat ground and in horizontal position.
- Place a vessel of adequate capacity on the right side of the vehicle under the water pump (1).
- Loosen the exhaust screw (2) using an 8 mm wrench.
- Slowly open the RH radiator cap (3) and let the liquid drain.
- After drain, tighten the screw (2) replacing the aluminium sealing washer.

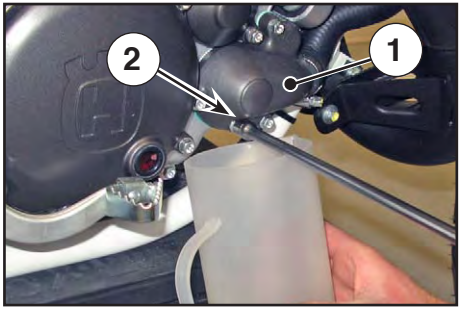
WARNING*: Avoid removing radiator cap when engine is hot, as coolant may spout out and cause scalding.

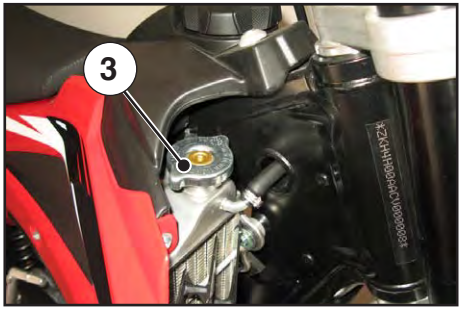
WARNING:
Difficulties may arise in eliminating coolant from painted surfaces. If this occurs, wash off with water.

- pour the necessary quantity of liquid in the radiator;
- warm up the motor in order to eliminate any possible air bubble;
- fit the motor in vertical position and check that the liquid in the radiators must be 10 mm/0.4 in. over the radiant mas (if not, top it up);
- screw the R.H. radiator plug.

WARNING*: Coolant on tires will make them slippery and can cause an accident or injury.

Periodically check the connecting hoses (see "Periodical maintenance card"): this will avoid coolant leakages and consequent engine seizure: If hoses show cracks, swelling or hardenings due to sheats desiccation, their
replacement shall be advisable. Check the correct tightening of the clamps.





EN

THROTTLE CABLE ADJUSTMENT

The throttle cable can be adjusted using the screw set on the throttle, or using the adjusting screw set on the carburettor cover. To check for proper adjustment of throttle cable, proceed as follows:

- remove rubber cap;
- move transmission sheath to and fro to ensure a play of approx. 1 mm;
- should play be greater than 1 mm, loosen lock nut (1) and register (2); should play less than 1 mm, then tighten lock nut and register;
- if register (2) should not provide sufficient movement to allow for correct adjustment, then adjust register placed on carburetor.

There should be approx. 1 mm play on latter register; should this not be the case, then loosen lock nut (3), and loosen or tighten screw (4), to respectively increase or decrease the play.

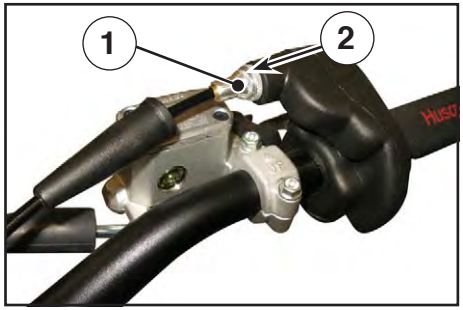
WARNING*: Operation with damaged throttle cable could result in an unsafe riding condition.

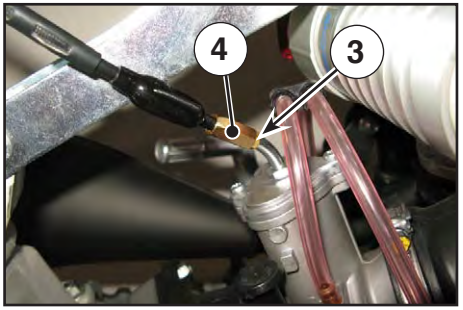
IDLE ADJUSTMENT

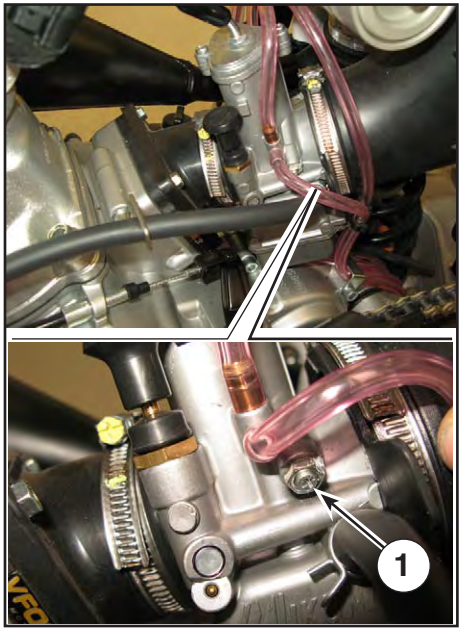
Idling should be adjusted only when the engine is hot and throttle is closed, as follows:

- turn the idle speed adjuster screw (1) until setting 1500 RPM ± 100 (turn clockwise to increase the speed and counter clockwise to reduce the speed).

WARNING*: Exhaust gas contains poisonous carbon monoxide gas. Never run the engine in a closed area or in a confined area.







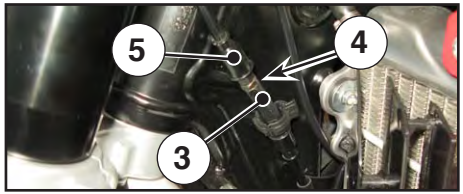
ADJUSTMENT OF THE CLUTCH CONTROL LEVER

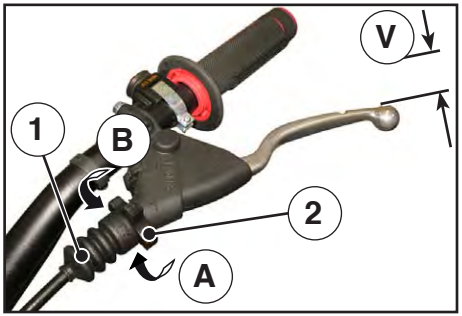
To adjust the clutch control lever, you will need to adjust cable tension using the adjuster on the lever.

- Shift the rubber protection (1).
- Work on the adjuster screw (2), turn it in the direction indicated by the arrow (A) to decrease clearance, turn it in the direction indicated by the arrow (B) to increase it.
  There should be at least 10 mm (0.39 in.) free play (V) before the clutch begins to disengage.

The adjustment can be also effected with tightener (3) set on the left of the frame. Take care to tighten properly the lock nut. If the clutch slips under load or drags in disengaged position after play has been adjusted, it must be taken apart for inspection.

(3) Adjusting screw
(4) Locknut
(5) Rubber cap





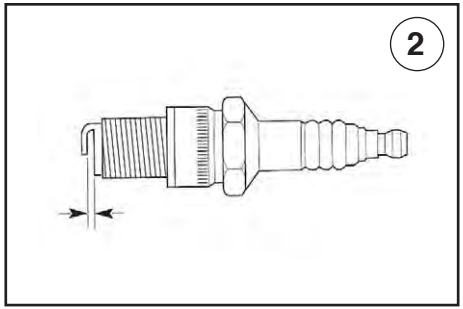
SPARK CONTROL

Use NGK BR9EG or CHAMPION QN84; spark plug (2); the gap is 0,6 in.
A wider gap may cause difficulties in starting engine and in overloading coil.
A gap that is too narrow may cause difficulties when accelerating, when idling the engine or when performing at low speeds.
Clean the dirt away from the base of the spark plug before removing it from the cylinder after removing the cap (1).
It is very useful to examine the state of the spark plug just after it has been removed from the engine since the deposits on the plug and the colour of the insulator provide useful indications.

Correct heat rating:
The tip of the insulator should be dry and the colour should be light brown or grey.
High heat rating:
In this case, the insulator tip is dry and covered with dark deposits.
Low heat rating:
In this case, the spark plug is overheated and insulator tip is vitreous, white or grey in colour.

CAUTION*: Select a spark plug with a colder or hotter heat range carefully and cautiously. A spark plug with too hot a heat range may lead to preignition and possible engine damage. A spark plug with too cold a heat range may foul as the result of too much carbon buildup.

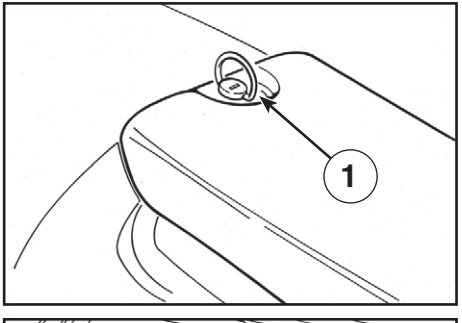
Before refitting the plug, thoroughly clean the electrodes and the insulator using a brass-metal brush.
Apply a little graphite grease to the spark plug thread; fit and screw the spark plug by hand then tighten to the torque of 23,5÷25,5 Nm-17,3÷18,8 ft/lb.
Spark plugs which have cracked insulators or corroded electrodes should be replaced.

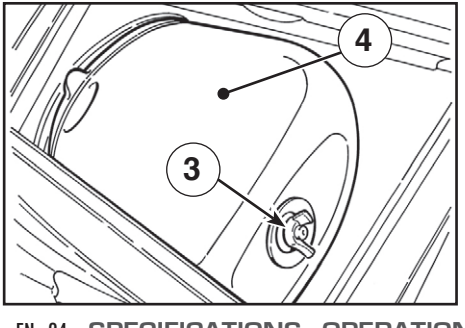


AIR FILTER CHECK

Turn rear pin (1) counterclockwise, remove the saddle from the front afstening screw.

Remove screw (3) and the filter (4). Separate filter (5) from frame (6).



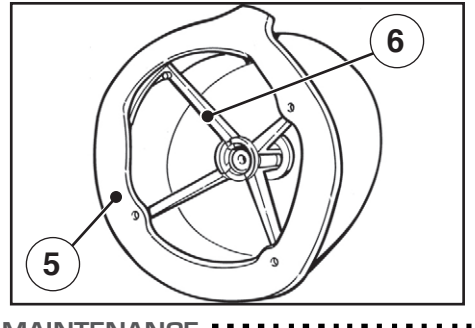


AIR FILTER AND CLEANING

Wash the filter with a specific detergent (CASTROL FOAM AIR FILTER CLEANER or similar) then dry it fully (wash filter with gasoline only in case of necessity).
Plunge the filter in special oil for filters (CASTROL FOAM AIR FILTER OIL or similar) then wring it to drain superfluous oil.

CAUTION*: Do not use gasoline or a low flash-point solvent to clean the element. A fire or explosion could result.

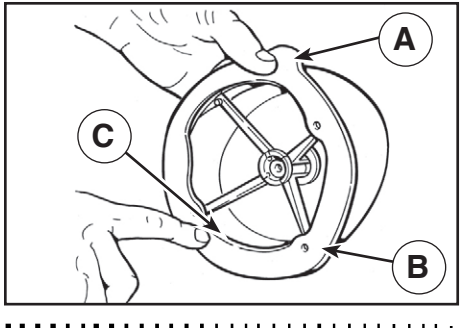
CAUTION*: Clean the element in a well ventilated area, and do not allow sparks or flames anywhere near the working area.



ASSEMBLY

To ensure tight fit, slightly (C) grease filter edge on side facing filter housing.
While re-inserting the filter into its housing, make surs that piece (A) is turned upwards and edge (B) is on the left lower side of the filter case. Reassemble the parts previously removed (battery: connect the positive cable first).

CAUTION*: If the element assembly is not installed correctly, dirt and dust may enter and the engine resulting in rapid wear of the piston rings and cylinder.



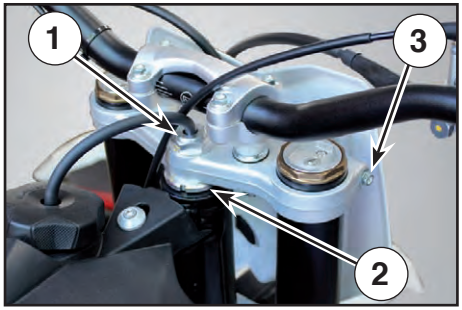
STEERING WHEEL BALL PLAY ADJUSTMENT

To ensure maximum safety, the steering wheel should always be regulated so that the handlebars steering the motorcycle rotate freely without play. To check steering wheel adjustment, place kick stand or other support under the engine so that the front wheel is raised from ground.
Place slight pressure on the tips of the handlebars to rotate steering wheel; the handlebars should also rotate without effort.

Stand in front of the motorcycle and grasp the lower end of the fork rods sliders moving them in the direction of their axis. Se si avverte gioco occorrerà eseguire la regolazione operando come segue:

- loosen steering sleeve nut (1).
- Loosen screws that fix steering head to fork rods (3).
  Turn the steering ring nut (2) clockwise of the steering sleeve proper tool, to adjust play properly.
- Tighten steering sleeve nut (1) to a torque setting of 57,9÷65,1 Lb/ft; (78,4÷88,3 Nm).
- Tighten screws on the steering head (3) to a torque of 22,5÷26,5 Nm (16.6÷19.5 Lb/ft).

CAUTION*: Do not ride a motorcycle with damaged steering stem bearings. An unsafe handling condition can result.



ADJUSTMENT OF THE CONTROL LEVER AND CHECK OF THE FRONT BRAKE FLUID LEVEL

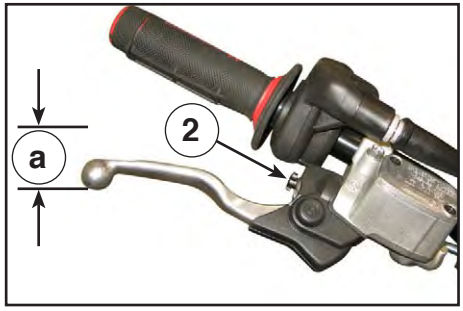
The adjuster (2), located on the control lever, allows adjusting of the free play (a).
Free play (a) must be at least 0.39 in. (10 mm).
The level of the fluid in pump reservoir must never be below the minimum value (1), which can be checked from the window on the rear side of the pump body.

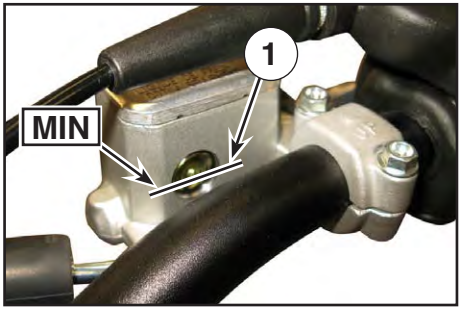
A decrease of the fuel level will let air into the sustem, hence an extension of the level stroke.

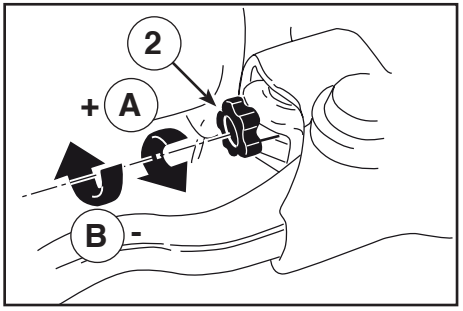
WARNING*: If the brake lever feels mushy when it is applied, there may be air in the brake lines or the brake may be defective. Since it is dangerous to operate the motorcycle under such conditions, have the brake checked immediately by an authorized HUSQVARNA dealer.

CAUTION*: Do not spill brake fluid on to any painted surface or lenses.
CAUTION*:Do not mix two brands of fluid. Change the brake fluid in the brake line if you wish to switch to another fluid brand.
CAUTION*: Brake fluid may cause irritation. Avoid contact with skin or eyes. In case of contact, flush thoroughly with water and call a doctor if your eyes were exposed.

A: to encrease clearance
B: to decrease clearance



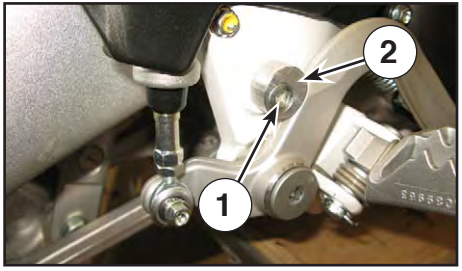


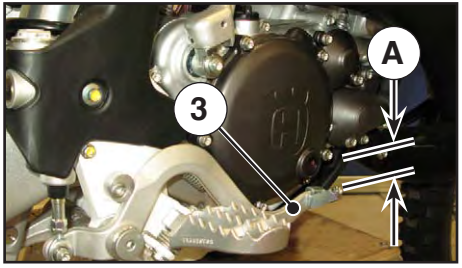


REAR BRAKE PEDAL POSITION ADJUSTMENT

The position of the rear foot brake pedal as to the footrest may be adjusted according to the individual needs. For the adjusting proceed as follows:
- loosen the screw (1);
- turn the cam (2) in order to adjust the brake pedal idle stroke (A);
- the operation done, tighten the screw (1).

The adjusting operation carried out, adjust the idle stroke of the pedal as follows..



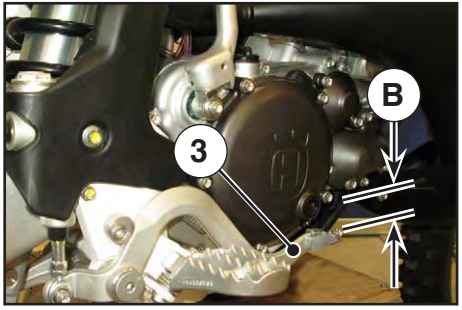


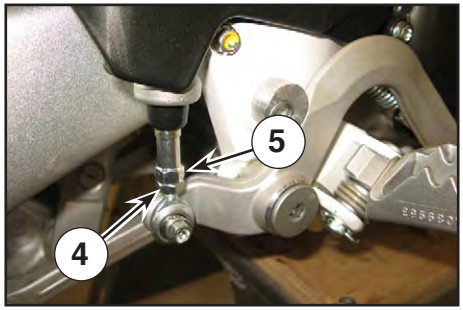
REAR BRAKE IDLE STROKE ADJUSTMENT

The rear brake (3) foot pedal should have a (B) 5 mm (0.2 in.) idle stroke before starting the true braking action.

Should this not happen, operate as follows:
- loosen nut (4);
- operate the pump rod (5) to increase or decrease the idle stroke;
- tighten nut (4) at the end of the operation.

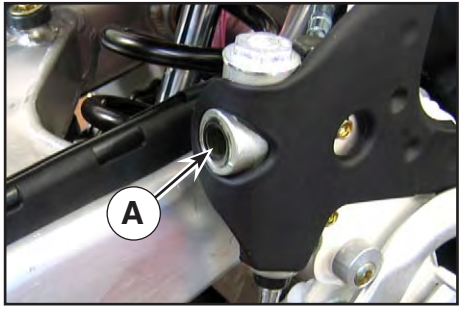
WARNING
When the idle stroke figures are not met, the brake pads will be subjected to a fast wear that may bring to the TOTAL BRAKE INEFFECTIVENESS.





CHECKING THE FLUID LEVEL

The level (A) must be set between the pump tank notches.



ADJUSTING THE SUSPENSIONS ACCORDING TO PARTICULAR TRACK CONDITIONS

The following information is a useful guide for setting up the suspensions according to the road conditions.
Always start from the standard calibration before making any change on the suspensions. Afterwards, increase or decrease the adjusting clicks one at a time.

HARD GROUND
Fork: softer compression adjustment.
Shock absorber: softer compression adjustment.
The softer adjustment for the two suspensions is also used both in compression and in extension when driving at top speed, in order to have better grip of the tires.

SANDY GROUND
Fork: have a harder compression adjustment, or replace the standard spring with a harder one, and make a softer compression adjustment and a harder extension adjustment at the same time.
Shock absorber: have a harder compression, and expecially a harder extension adjustment. Work on the spring preload to lower the motorcycle rear side.

MUDDY GROUND
Fork: have a harder compression adjustment, or replace the standard spring with a harder one.
Shock absorber: have a harder compression and extension adjustments, or replace the standard spring with a harder one. Work on the spring preload to lift the motorcycle rear side.
We advise replacing the springs of both suspensions to compensate the weight increase due to the piling of the mud.

NOTE:
When the fork results as either too soft or too hard for any adjustment conditions, check the oil level inside the forkrod.
The level can either be too low or too high. Remember that too much oil inside the fork will involve a more frequent air drainage. When the suspensions do not react to the changes of calibration, check that the adjusting units are not blocked.

The standard calibrations and the adjustment procedures are shown below.

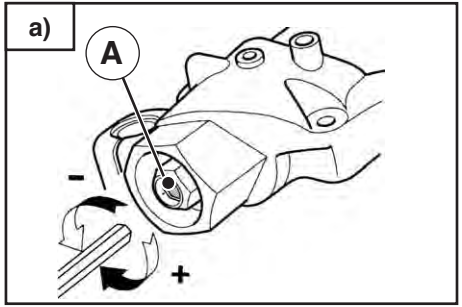
ADJUSTING THE COMPRESSION FORK

a) COMPRESSION (CR: UPPER REGISTER; WR: LOWER REGISTER)
Standard calibration: -9 clicks (CR)
Standard calibration: -10 clicks (WR)

Remove plug (B) and turn register (A) clockwise until the position of fully closed is reached then, turn back by the mentioned clicks.To obtain a smoother braking action, turn the register anticlockwise. Reverse the operation in order to obtain a harder action.

b) EXTENSION (CR: LOWER REGISTER; WR: UPPER REGISTER)
Standard calibration: -13 clicks (CR)
Standard calibration: -10 clicks (WR)

To reset standard calibration turn register (C) clockwise to reach the position of fully closed; then, turn back by the mentioned clicks. To obtain a smoother braking action, turn the register anticlockwise. Reverse the operation in order to obtain a harder action.
c) AIR VENT (to carry out after each competition, or monthly). Set the motorcycle on a central stand and release the fork fully and loosen the air vent valve (D). Once this operation is over, tighten the valve.

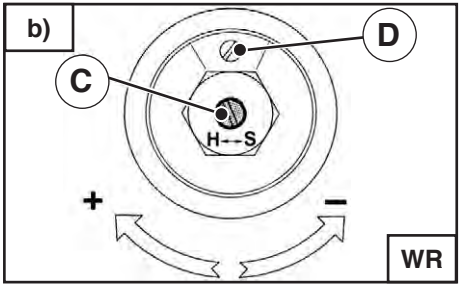


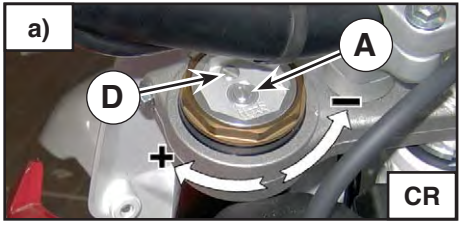
WARNING: Never force the adjusting screws beyond the maximum opening and closure positions.

OIL FORK LEVEL

For the regular fork operation, both legs must be provided with the necessary oil quantity.

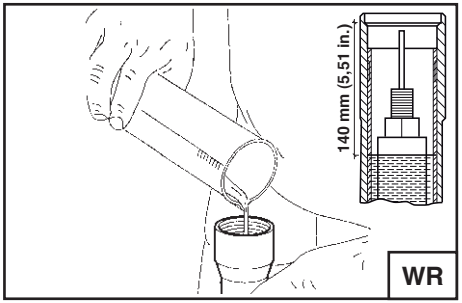
OIL QUANTITY IN EACH FORK LEG
- CR: 556 cm^3 (33,93 in^3)
  Cartridge: 196 cm^3 (11,96 in^3)
  Fork sleeve: 360 cm^3 (21,97 in^3)
- WR: 643 cm^3

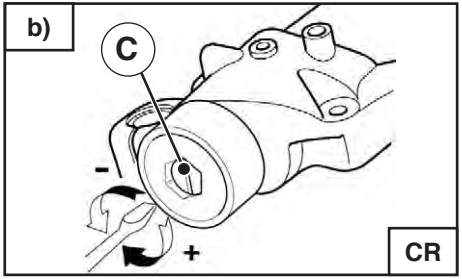




- WR:
Remove the fork legs from the fork to check the oil level. Work as follows:
- remove the damper rod caps;
- remove springs from the legs letting the oil drain into the legs;
- bring fork to stroke end;
- check that level is at the distance (A) of 140 mm (5,51 in.) from rod upper limit.

NOTE
Always replace both the spring and the spacers to keep the preload value unchanged.





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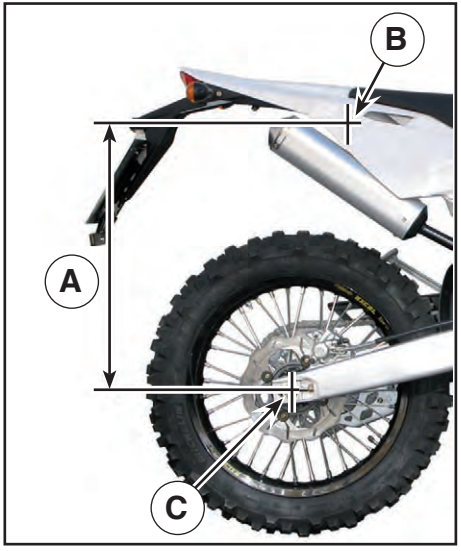
ADJUSTING THE SHOCK ABSORBER

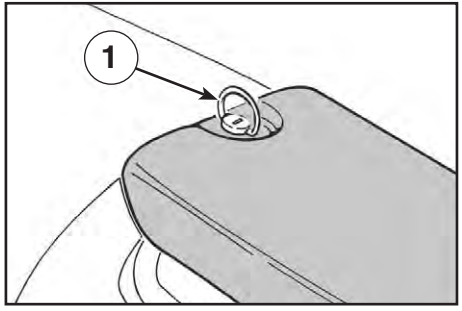
The rear shock absorber must be adjusted according to the rider weight and track conditions.
Proceed as follows:

1. With motorcycle on the stand, measure distance (A).
2. Take the normal riding position on the motorcycle with all your riding apparel.
3. With somebody's help, take the new distance (A).
4. The difference between these two measurements constitutes the "SAG" of the motorcycle's rear end.
   The shock absorber lowering should be of about 100 mm (3.94 in.).
5. To get the right SAG according to your weight, adjust the shock absorber spring preload as described at side.

WARNING*: Never disassemble shock absorber, which contains highly compressed nitrogen. Contact your Dealer for such major service. Do not incinerate.

B: axis of the panel screw
C: axis of rear wheel pin





SHOCK ABSORBER SPRING PRELOAD ADJUSTMENT

Proceed as follows:

1. Place yourself on the right-hand side of the motorcycle.
2. Clean ringnut (1) and adjusting nut (2) of the spring (3).
3. Either with a hook wrench or an aluminium punch, loosen the ringnut .
4. Turn the adjusting nut as required.
5. When the adjusting operation is over (according to your weight and riding style), tighten the ringnut. (Torque for both ringnuts: 40 Nm - 4 Kgm - 29,50 ft/lb).
6. Reassemble R.H. side panel and saddle.

WARNING*:Be careful not to touch hot exhaust pipe while adjusting the shock abosrber.

SHOCK ABSORBER DAMPING ADJUSTMENT

Adjustment of the compression stroke is independent from the rebound stroke.

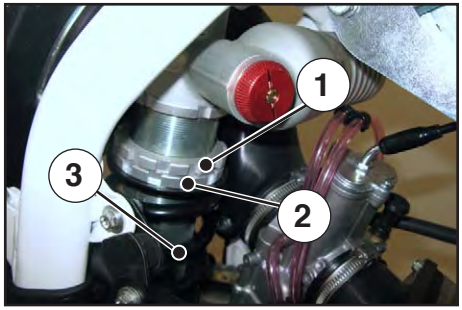
A) COMPRESSION - Standard calibration:
1) Low damping speed:
- 15 clicks (± 2 clicks)
(register 4)

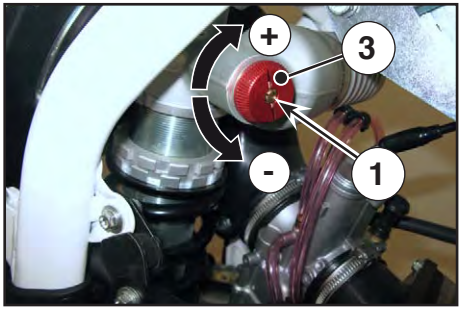
3) High damping speed:
- 15 clicks (± 2 clicks)
(register 6)

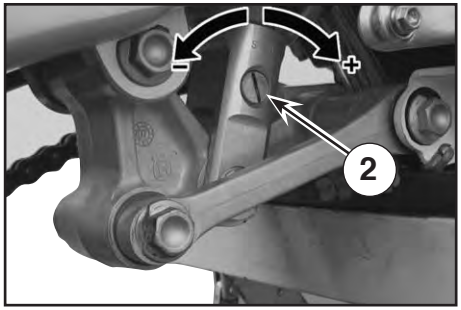
To reset the standard calibration, turn upper registers (1) and (3) clockwise until reaching fully closed position.
Return then back for the mentioned clicks. In order to obtain a smooth braking action, turn the registers anticlockwise. Reverse the operation in order to obtain a harder braking action.

B) EXTENSION - Standard calibration:
- 18 clicks (± 2 clicks)

To reset the standard calibration, turn lower register (2) clockwise until reaching fully closed position. Return then back for the mentioned clicks. In order to obtain a smooth braking action, turn the register anticlockwise. Reverse the operation in order to obtain a harder braking action.







CHAIN ADJUSTMENT (Fig. A)

Chain should be checked, adjusted and lubricated as per the Maintenance Chart to ensure security and prevent excessive wear. If the chains becomes badly worn or is poorly adjusted (i.e., if it is too loose or too taught), it could escape from sprocket or break.

To adjust the rear chain it is necessary to lower the rear part of motorcycle so to line up the drive sprocket axle, the rear swing arm axle and the rear wheel axle as shown on drawing. Than let turn three times the rear wheel. Now the chain should not be tight.

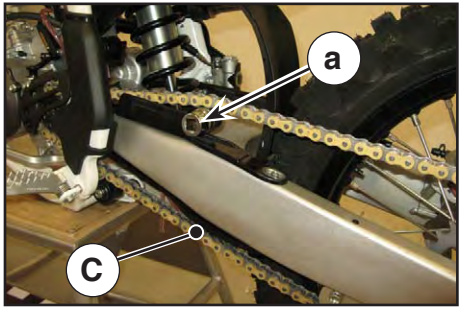
Quick adjustment

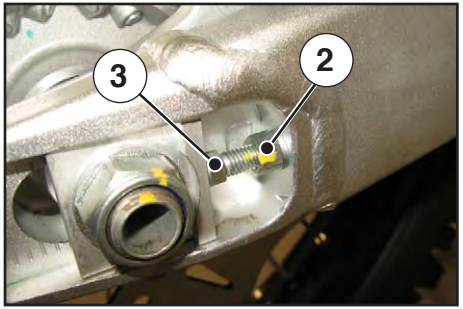
Insert a 35 mm socket (a) (or a shim of the same size) at the position shown in the figure and check that the lower section (C) of the chain is slightly taut.

If it is not, proceed as follows:

- Loosen the wheel axle nut (1) on the right-hand side using a 27 mm socket wrench;
- Loosen the check nuts (2) on both chain tensioners with a 12 mm wrench and work the screws (3) until achieving the correct tension;
- When the adjustment is completed, tighten the check nuts (2) and the wheel axle nut (1).

After any adjustment, always check wheel alignment and tighten wheel axle securely.





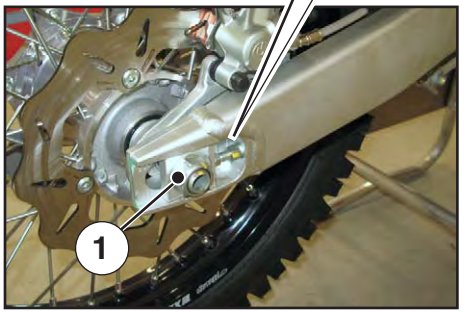
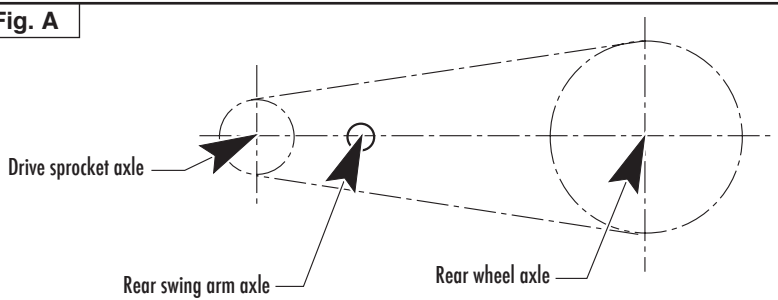


Fig. A

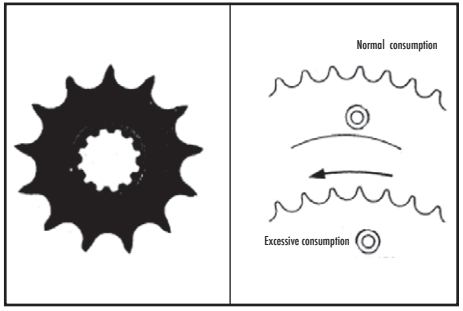


CHECKING THE WEAR OF CHAIN, PINION AND SPROCKET

Check the pinion damages or wear and replace it should the wear degree be as the one shown in figure.
Remove the wheel and check the wear of the rear sproket teeth. The below figure shows the outline of teeth in normal and excessive wear. Should the sprocket be badly worn out, replace it by loosening the six fastening screws to the hub.

WARNING*: Misalignment of the wheel will result in abnormal wear and may result in an unsafe riding condition.

Note*: In muddy and wet conditions, mud sticks to the chain and sprockets resulting in an overtight chain. The pinion, the chain, and the rear sprocket wheel wear increases when running on muddy ground.



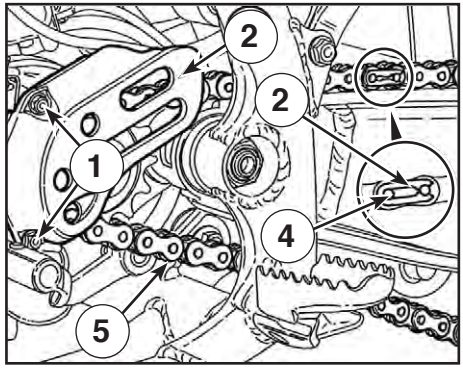
LUBRICATING THE CHAIN

Lubricate the chain following these instructions.

WARNING * : Never use grease to lubricate the chain. Grease helps to accumulate dust and mud, which act as abrasive and hepl to rapidly wear out the chain, the sprocket, and the crown.

Disassembling and cleaning

When particularly dirty, remove and clean the chain before lubrication.
Work as follows:
1 - Set a stand or a block under the engine and see that the rear wheel is lifted from the ground.
Remove: screws (1), transmission sprocket guard (2), clip (3), master link (4) and transmission chain (5);
To reassemble, reverse the above procedure.



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2 - Check that the chain is neither worn out nor damaged. If the rollers or the links are damaged, replace the chain by following the instructions given in the Periodical Maintenance Table.
3 - Check that neither the sprocket nor the crown are damaged.
4 - Wash and clean the chain as described hereunder.

Washing the chain without OR (CR)

Wash using either oil or diesel oil. When using gasoline or tricloroetilene, clean and lubricate the chain to prevent oxidation.

Washing the chain with OR (WR)

Wash using oil, diesel oil, or paraffin oil. Never use gasoline, tricloroetilene, or solvents, as the OR may suffer damages.
Use instead special sprays for chains with OR.

Lubricating the chain without OR (CR)

First dry, then plunge the chain in a bisulphide molybdenum lubricant, or in high viscosity engine oil. Warm up the oil before use.
Note * : As an alternative, you can use suitable spray lubricants.

Lubricating the chain with OR (WR)

Lubricate all metallic and rubber (OR) elements using a brush, and use engine oil with SAE 80-90 viscosity for the internal and external parts.
Note * : As an alternative, you can use suitable spray lubricants.

5 - Assemble the joint spring (a) by turning the closed side to the chain direction of rotation as shown in figure below.

NOTE*: Even if all the joints are reusable when in good conditions, for safety purposes we advise using new joints when reassembling the chain.

6- Correctly adjust chain, as described in the relevant paragraph.

WARNING: The chain oil has NEVER to get in contact with the tires or the rear brake disk.

Chain tension rollers, chain driving roller, chain guide, chain runner

Check the wear of the above mentioned elements and replace them when necessary.

WARNING*: Check the chain guide alignement, and remember that a bent element can cause a rapid wear of the chain. In this case, a chain fleeting from the sprocket may ensue.

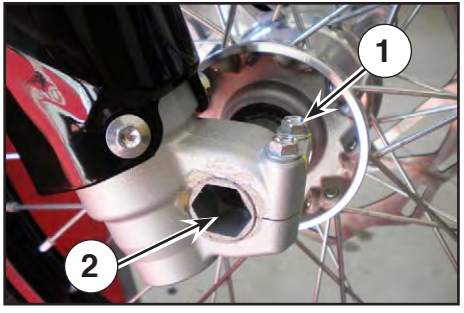
1- Chain tension roller
2- Chain guide
3- Chain slider
a- Joint spring

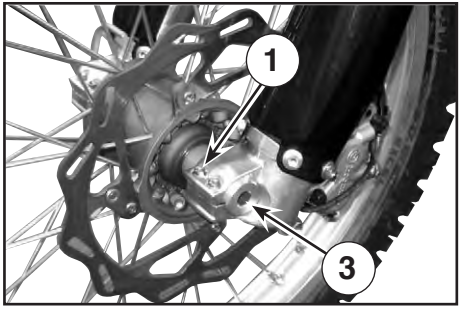
REMOVING THE FRONT WHEEL

Set a stand or a block under the engine and see that the front wheel is lifted from the ground. Loosen the bolts (1) holding the wheel axle (2) to the front
fork stanchions.
Hold the head of the wheel axle (2) in place, unscrew the bolt (3) on the opposite side; draw the wheel axle out.

NOTES

Do not operate the front brake lever when the wheel has been removed; this causes the caliper piston to move outwards. After removal, lay down the wheel with brake disc on top.



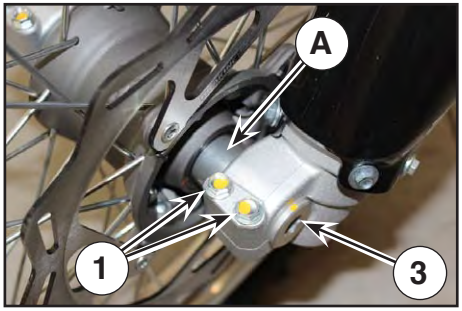


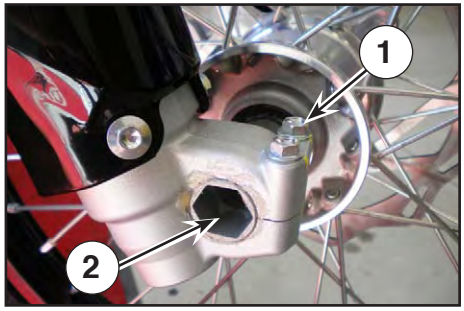
REASSEMBLING THE FRONT WHEEL

Fit the L.H. spacer (A) on the wheel hub.
Fit the wheel between the front fork legs so that the brake disc is fitted into the caliper.

Fit the wheel axle (2) from the R.H. side, after greasing it and push it to the stop on the L.H. leg; during this operation, the wheel should be turned. Tighten the screw (3) on the fork L.H. side but DO NOT lock it. Now, pump for a while, pushing the handlebar downwards until you are sure that the fork legs are perfectly aligned.
Lock: the screws (1) on the R.H. leg (10,4 Nm/ 1,05 Kgm/ 7.7 ft-lb), the screw (3) on the L.H. side (51,45 Nm/ 5,25 Kgm/ 38 ft-lb), the screws (1) on the L.H. leg (10,4 Nm/ 1,05 Kgm/ 7.7 ft-lb).
Check that the brake disc slides between the caliper pads without any friction.

NOTE
After reassembly, pump the brake control lever until the pads are against the brake disc.





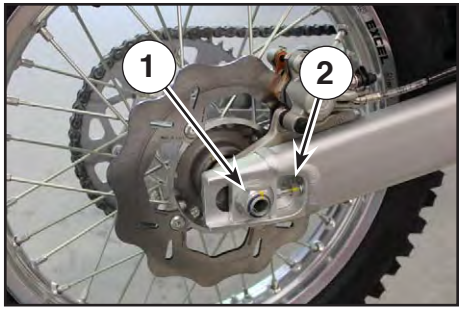
REMOVING THE REAR WHEEL

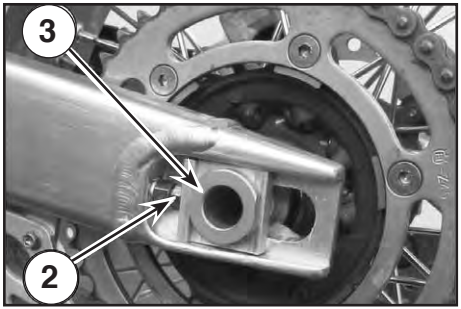
Unscrew the nut (1) of the wheel pin (3) and extract it. It is not necessary to unloose the chain adjusters (2); in this way, the chain tension will remain unchanged after the reassembly. Extract the complete rear wheel, by taking care of the spacers located at the hub sides.
To reassemble, reverse the above procedure remembering to insert the disc into the caliper.

NOTES

Do not operate the rear brake pedal when the wheel has been removed; this causes the caliper piston to move outwards.
After removal, lay down the wheel with brake disc on top.
After reassembly, pump the brake control pedal until the pads are against the brake disc.

Tightening torque figures
1= 142.1 Nm, 14.5 Kgm, 104.8 ft/lb





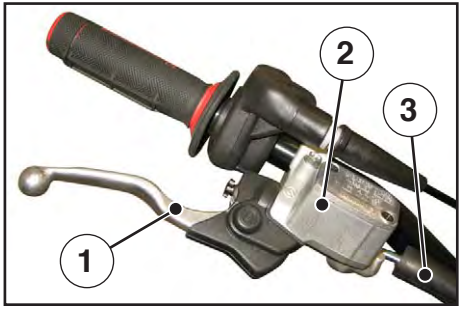
TIRES

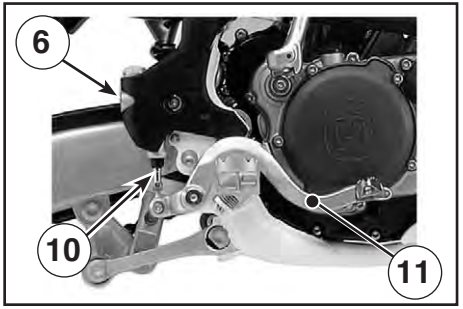
Care should be taken to keep the tyres properly inflated. See "Technical data" chart at the beginning of the manual for correct tyre inflation pressure.

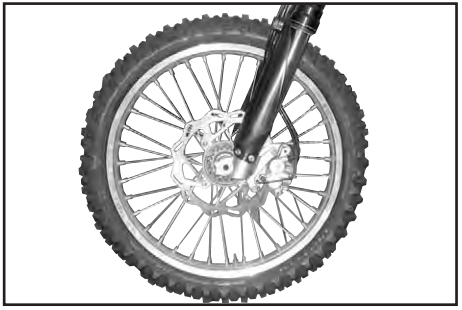
BRAKES

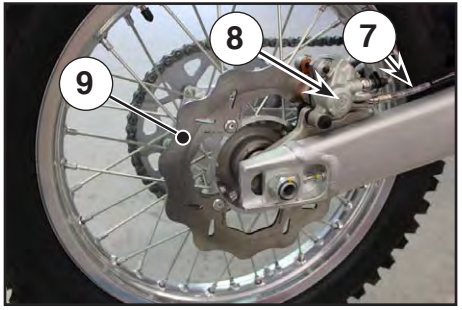
The mayor components are brake master cylinder with its lever (front) or pedal (rear), brakeline, caliper assembly and disc.

LEGEND
1. Front brake control lever
2. Front brake pump with oil reservoir
3. Front brake hose
4. Front brake caliper
5. Front brake disc
6. Rear brake oil tank
7. Rear brake hose
8. Rear brake caliper
9. Rear brake disc
10. Rear brake pump
11. Rear brake control pedal





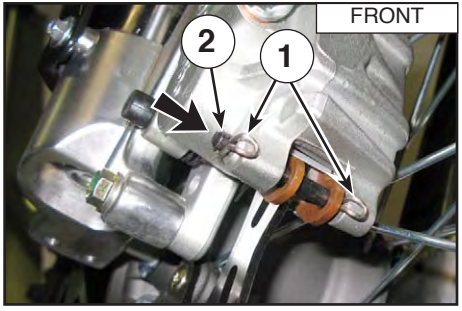


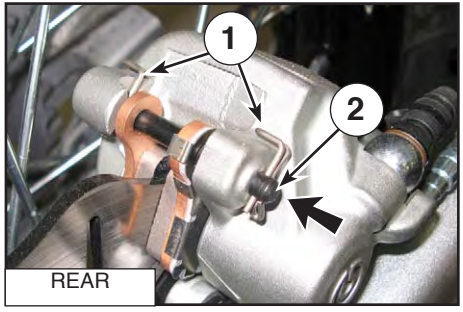


BRAKE PADS REMOVAL

- Remove springs (1).
- Remove pins (2).
- Remove pads.

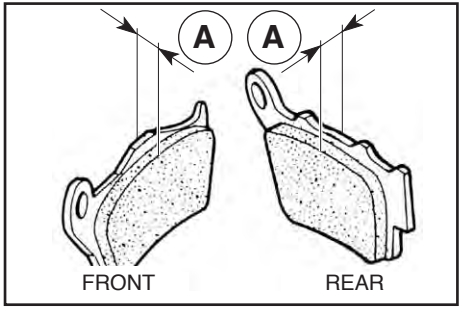
CAUTION!
Don't operate the brake lever or pedal while removing the pads.





PADS WEAR

Inspect pads for wear.
Service limit " A" is: 3,8 mm (0.15 in.).
If service limit is exceeded, always replace the pads in pairs.



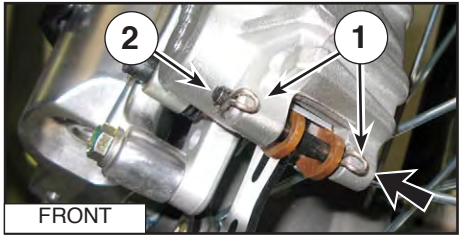
PADS CLEANING

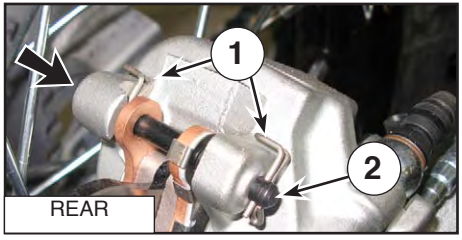
Be careful that no disc brake fluid or any oil gets on brake pads or discs. Clean off any fluid or oil that inadverently gets on the pads or disc with alcohol.
Replace the pads with new ones if they cannot be cleaned satisfactorily.

PADS INSTALLATION

- Install new brake pads.
- Reassemble the two pins (2) and the springs (1).

WARNING!
Do not attempt to ride the motorcycle until the brake lever or pedal are fully effective. Pump the brake lever or pedal until the pads are against the discs.
The brake will not function on the first application of the lever or pedal.





BRAKE DISC WEAR

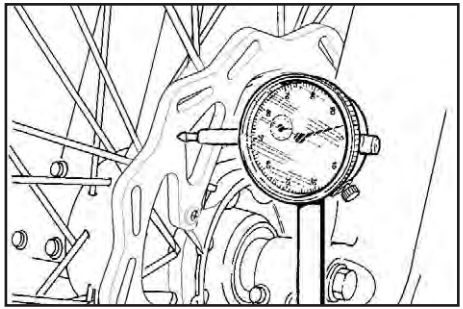
Measure the thickness of each disc at the point where it has worn the most. Replace the disc if it has worn past the service limit.

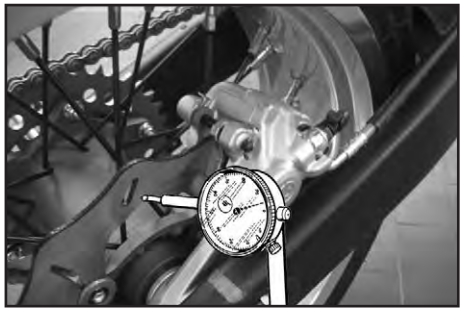
Disc Thickness

DISC	STANDARD	SERVICE LIMIT
Front	3 mm (0,12 in.)	2,5 mm (0,1 in.)
Rear	4 mm (0,16 in.)	3,4 mm (0,134 in.)

DISC WARPAGE

Measure disc warpage. Service limit for both discs is 0,15 mm (0.006 in.)
Replace the disc if warpage is more than service limit.





DISC CLEANING

Poor braking can also be caused by oil on the disc. Oil or grease on the disc must be cleaned off with a high flash-point oil free solvent, such as acetone or lacquer thinner.

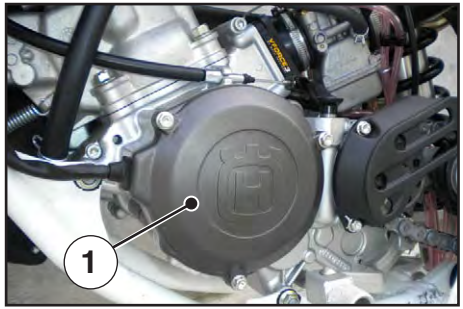
ELECTRICAL COMPONENTS LOCATION

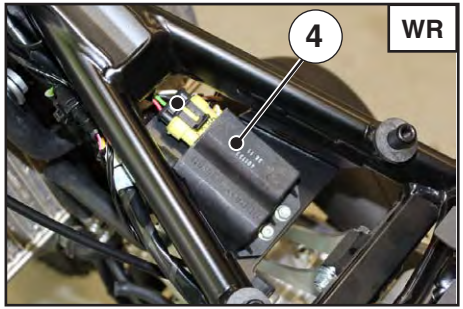
The ignition system includes the following elements:
- Generator (1), in oil bath, on the inner side of L.H. crankcase cover;
- Spark plug (5) on the cylinder head.

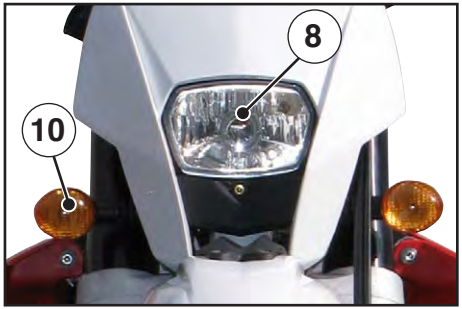
CR
- Electronic ignition coil (2) under the fuel tank;
- Electronic control unit (3) positioned on left-hand side, under tank.

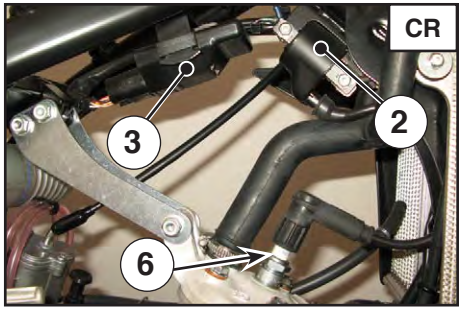
WR
- Transducer (4) secured onto a bracket under fuel tank;
- Voltage regulator (5) secured onto a bracket close to transducer.

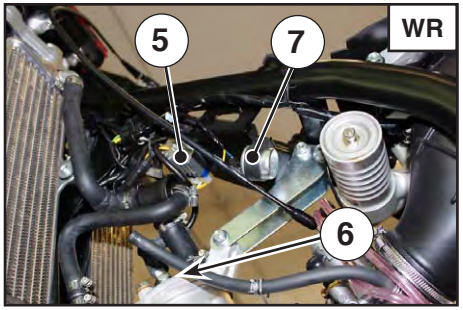
WR
The electric system includes the following elements:
- Flashing indicator device (7) under the fuel tank
- Headlamp (8) with two filaments bulb of 12V-35/35W and parking light bulb of 12V-5W;
- Back light (9) LED type;
- Turn signals bulb (10) of 12V-10W;

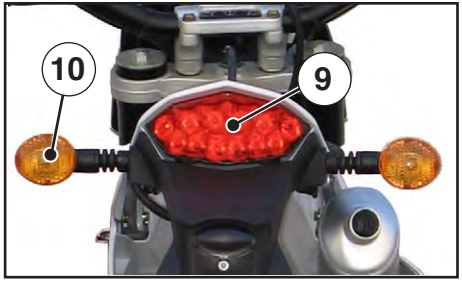








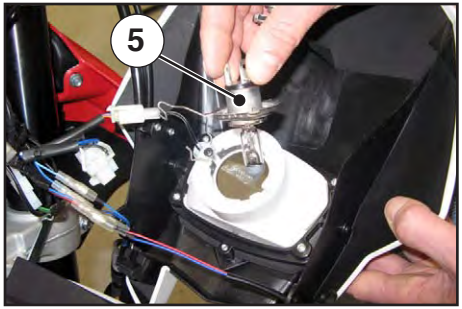


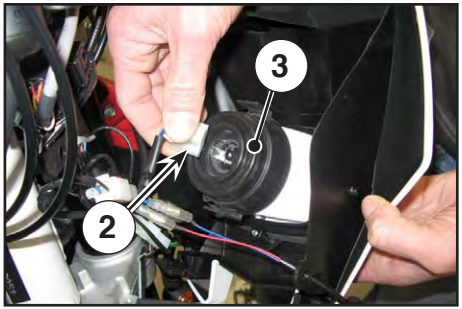


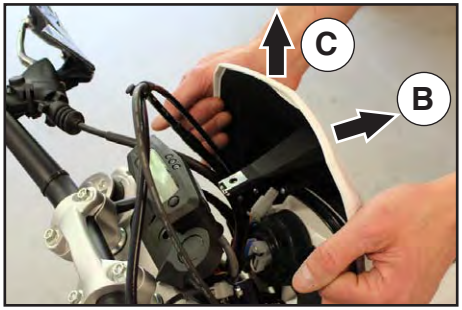
HEADLAMP BULBS REPLACEMENT (WR)

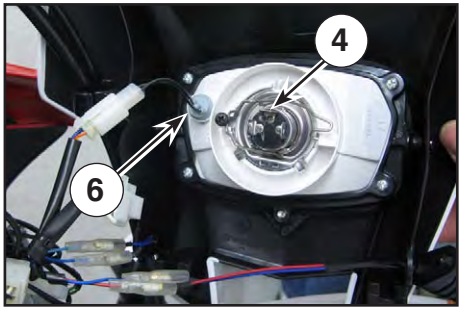
To gain access to the healamp bulbs, proceede as follows:
- remove the upper fastening screw of the the headlamp carrier to the instrument panuel support (1);
- push forward the headlamp carrier (B) and pull it towards the high (C) in order to uncouple from the two lower supports.
- remove the headlamp carrier;
- remove the two filaments bulb connector (2) and the boot (3);
- release the bulb holder clips (4) and take out bulb (5);

To replace the parking light bulb (6) extract it from the inside cover.
After replacement, reverse operations for reassembly.









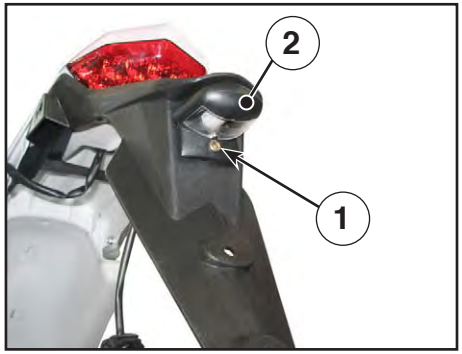
TAIL LIGHT (WR)

The tail light (1) is a LED light; Replace it when it does not function.

REPLACING THE NUMBER PLATE LAMP (WR)

- loosen screw (1) and remove the number plate bulb (2) from the mudguard;
- take bulb holder (3) and bulb (4) out of the support;
- pull the bulb (4) to detach it from bulb holder.

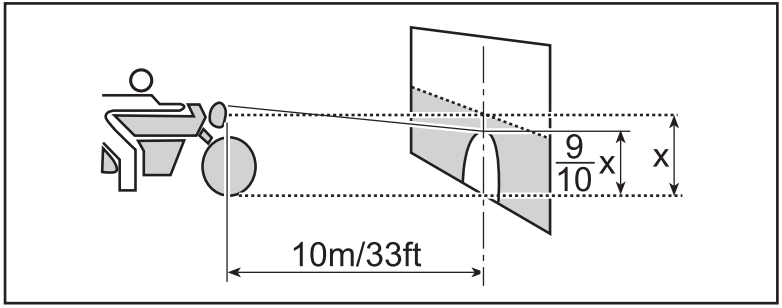
Once the bulb has been replaced, reverse the above procedure to reassemble.



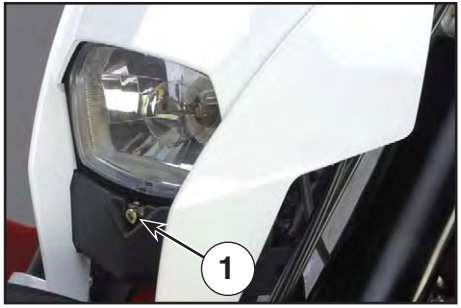
ADJUSTMENT OF HEADLIGHT (WR)

When checking the proper orienting of headlight, inflate tires at right pressure, sat a person on the saddle and place the motorcycle perpendicular with its longitudinal axis 10 meter (33 ft) from a wall or screen. Then trace an horizontal line equal to the height of headlight center and a vertical one in line with its longitudinal axis.

If possibile, execute this operation in a shadowy place.
When the low beam is on, the upper boundary limit between dark and lit zone should be 9/10 th of headlight center from groud.



Adjust the preadlamp aiming by turning screw (1) to lower or lift the high beam.



EN

APPENDIX

AFTER-RACE CHECK POINTS

After racing, first clean the motorcycle and then inspect the entire motorcycle, with special attention to the items listed in «MAINTENANCE» table (Appendix A), such as the air cleaner, carburetor, brakes, etc.

Carry out general lubrication, and make adjustment as necessary.

After every race, always check the correct tightening of all screws and bolts.

STORAGE

When the motorcycle is to be stored for any length of time, is should be prepared for storage as follows:

- Clean the entire motorcycle thoroughly.
- Empty the fuel from the fuel tank, and empty the carburetor float bowl. (If left in for a long time, the fuel will deteriorate).

WARNING

Never litter the environment with fuel, and let the engine running in open air, never in closed rooms.

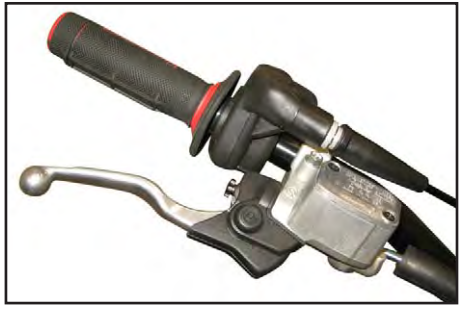
- Lubricate the drive chain and all the cables.
- Spray oil on all unpainted metal surfaces to prevent rusting. Avoid getting oil on rubber parts or in the brakes.
- Set the motorcycle on a box or stand so that both wheels are raised off the ground. (If this cannot be done, put boards under the front and rear wheels to keep dampness away from the tire rubber).
- Tie a plastic bag over the exhaust pipe to prevent moisture from entering.
- Put a cover over the motorcycle to keep dust and dirt from collecting on it.

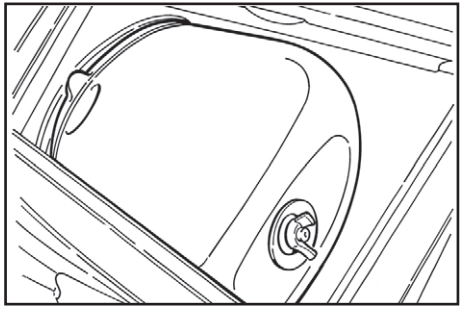
To put the motorcycle back into the use after storage.

- Make sure the spark plug is tight.
- Fill the fuel tank.
- Run the engine for about 5 minutes to warm the oil then drain the oil.
- Put in fresh transmission oil.
- Check all the points listed under the inspection and Adjustment Section (Appendix A).
- Lubricate the points (listed in the Lubrication Section (Appendix A).

CLEANING
IMPORTANT RECOMMENDATION

Premised that, before the motorcycle washing, it is necessary to protect opportunely from the water the following parts:
a) Rear opening of the muffler;
b) Clutch and brake levers, hand grips, handlebar commutators;
c) Air cleaner intake;
d) Fork head, wheel bearings;
e) Rear suspension links.



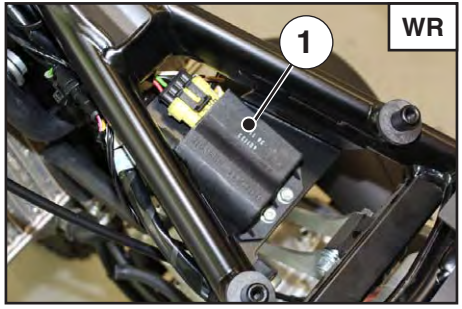


it is necessary ABSOLUTELY TO AVOID THAT HIGH PRESSURE JETS OF WATER OR AIR come to contact with THE ELECTRICAL PARTS, especially the electronic control unit (1) and the dashboard (2).

After washing:
- Lubricate the points listed in the Maintenance Table (Appendix A).
- Start the engine and run it for 5 minutes.
- Test the brakes before riding the motorcycle.

WARNING*: Never wax or lubricate the brake disc. Loss of braking and an accident could result. Clean the disc with an oilless solvent such ans acetone. Observe the solvent warnings.

After each cleaning, it is recommended the use of a water-repellent product suitable for electrical contacts (see table for lubrications and supplies) on all the electrical contacts, without disconnect them.



PRE - DELIVERY INSPECTION

Description	Operation	Pre-delivery
Engine oil	Check level	❑
Two-stroke mix oil level	Check level	❑ ❆
Coolant	Check / Restore level	❑
Cooling system	Check for leakage	❑
Electric fans	Check operation	❑ ❆ ❆
Spark plugs	Check / Replace	❑
Throttle body / Carburettor	Check and adjust	❑
Brakes / Clutch fluid	Check level	❑
Brakes / Clutch	Check operation	❑
Brakes / Clutch	Check lines for leakage	❑
Throttle control	Check operation	❑
Throttle control	Check / Adjust play	❑
Choke control	Check operation	❑
Flexible controls and transm.	Check / Adjust	❑
Drive chain	Check / Adjust	❑

Description	Operation	Pre-delivery
Tyres	Check pressure	❑
Side stand	Check operation	❑
Side stand switch	Check operation	❑
Electrical equipment	Check operation	❑
Instrument panel	Check operation	❑
Lights / Visual signals	Check operation	❑
Horn	Check operation	❑
Headlight	Check operation	❑
Ignition switch	Check operation	❑
Locks	Check operation	❑
Screws and nuts	Check / Tighten	❑
Hose clamps	Check / Tighten	❑
General lubrication		❑
General test		❑

❆ : only for motorcycles with 2 stroke engine

❆❆ : only for some models

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